

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
				Application Number	10/701,007
				Filing Date	November 4, 2003
				First Named Inventor	Charles Allerson
				Art Unit	1635
Examiner Name	Jane J. Zara				
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U. S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number – Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2002/0049173 A1	04-25-2002	Bennett et al.	
	2	2002/0068708 A1	06-06-2002	Wengel et al.	
	3	2002/0071826 A1	06-13-2002	Tamarkin et al.	
	4	2002/0081577 A1	06-27-2002	Kilkuskie et al.	
	5	2002/0102267 A1	08-01-2002	Lu et al.	
	6	2002/0147332 A1	10-10-2002	Kaneko	
	7	2002/0156235 A1	10-24-2002	Manoharan et al.	
	8	2002/0162126 A1	10-30-2002	Beach et al.	
	9	2002/0165189 A1	11-07-2002	Crooke	
	10	2002/1051512 A1	10-17-2002	Peyman et al.	
	11	2003/0004325 A1	01-02-2003	Cook et al.	
	12	2003/0027780 A1	02-06-2003	Hardee et al.	
	13	2003/0096286 A1	05-22-2003	Crooke	
	14	2003/0096287 A1	05-22-2003	Crooke	
	15	2003/0096784 A1	05-22-2003	Crooke	
	16	2003/0119777 A1	06-26-2003	Crooke	
	17	2003/0125241 A1	07-03-2003	Wissenbach et al.	
	18	2003/0139585 A1	07-24-2003	Uhlmann et al.	
	19	2003/0158403 A1	08-21-2003	Manoharan et al.	
	20	2003/0166282 A1	09-04-2003	Brown et al.	
	21	2003/0175906 A1	09-18-2003	Manoharan et al.	
	22	2003/0187240 A1	10-02-2003	Cook et al.	
	23	2003/0190635 A1	10-09-2003	McSwiggen	
	24	2003/0207804 A1	11-06-2003	Manoharan et al.	
	25	2003/0224377 A1	12-04-2003	Wengel et al.	
	26	2004/0001811 A1	01-01-2004	Kreutzer et al.	

Examiner Signature		Date Considered	
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U. S. PATENT DOCUMENTS					
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	27	2004/0009938 A1	01-15-2004	Manoharan et al.	
	28	2004/0014957 A1	01-22-2004	Eldrup et al.	
	29	2004/0029275 A1	02-12-2004	Brown et al.	
	30	2004/0102618 A1	05-27-2004	Crooke et al.	
	31	2004/0146867 A1	07-29-2004	Slattum et al.	
	32	2004/0171033 A1	09-02-2004	Baker et al.	
	33	2004/0259247 A1	12-23-2004	Tuschl et al.	
	34	2005/0020525 A1	01-27-2005	McSwiggen et al.	
	35	2005/0080246 A1	04-14-2005	Allerson et al.	
	36	2005/0164209 A1	07-28-2005	Bennett et al.	
	37	2005/0181382 A1	08-18-2005	Zamore et al.	
	38	2005/0221275 A1	10-06-2005	Bennett et al.	
	39	2005/0245474 A1	11-03-2005	Baker et al.	
	40	2005/0273868 A1	12-08-2005	Rana	
	41	2006/0127891 A1	06-15-2006	McSwiggen et al.	
	42	2007/0032446 A1	02-08-2007	Cook et al.	
	43	4,373,071	02-08-1983	Itakura	
	44	4,381,344	04-26-1983	Rideout et al.	
	45	4,401,796	08-30-1983	Itakura	
	46	4,415,732	11-15-1983	Caruthers et al.	
	47	4,426,330	01-17-1984	Sears	
	48	4,458,066	07-03-1984	Caruthers et al.	
	49	4,469,863	09-04-1984	Ts'o et al.	
	50	4,476,301	10-09-1984	Imbach et al.	
	51	4,500,707	02-19-1985	Caruthers et al.	
	52	4,507,433	03-26-1985	Miller et al.	

Examiner Signature		Date Considered	
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	53	4,511,713	04-16-1985	Miller et al.	
	54	4,534,899	08-13-1985	Sears	
	55	4,587,044	05-06-1986	Miller	
	56	4,605,735	08-12-1986	Miyoshi	
	57	4,667,025	05-19-1987	Miyoshi	
	58	4,668,777	05-26-1987	Caruthers et al.	
	59	4,689,320	08-25-1987	Kaji	
	60	4,720,483 A	01-19-1988	Jansz et al.	
	61	4,725,677	02-16-1988	Koster et al.	
	62	4,757,141	07-12-1988	Fung et al.	
	63	4,760,017	07-26-1988	McCormick	
	64	4,762,779	08-09-1988	Snitman	
	65	4,789,737	12-06-1988	Miyoshi	
	66	4,812,512	03-14-1989	Buendia et al.	
	67	4,824,941	04-25-1989	Gordon	
	68	4,828,979	05-09-1989	Klevan	
	69	4,835,263	05-30-1989	Nguyen	
	70	4,845,205	07-04-1989	Huynh Dinh et al.	
	71	4,849,320	07-18-1989	Irving et al.	
	72	4,849,513	07-18-1989	Smith et al.	
	73	4,876,335	10-24-1989	Yamane	
	74	4,904,582	02-27-1990	Tullis	
	75	4,908,405	03-13-1990	Bayer et al.	
	76	4,924,624	05-15-1990	Suhadolnik et al.	
	77	4,948,882	08-14-1990	Ruth	
	78	4,958,013	09-18-1990	Letsinger	

Examiner Signature		Date Considered	
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	79	4,965,350	10-23-1990	Inoue et al.	
	80	4,973,679	11-27-1990	Caruthers et al.	
	81	5,013,556	05-07-1991	Woodle et al.	
	82	5,023,243	06-11-1991	Tullis	
	83	5,082,830	01-21-1992	Brakel	
	84	5,082,934	01-21-1992	Saba et al.	
	85	5,108,921	04-28-1992	Low et al.	
	86	5,109,124	04-28-1992	Ramathandran	
	87	5,112,963	05-12-1992	Pieles	
	88	5,118,802	06-02-1992	Smith	
	89	5,130,302	07-14-1992	Spielvogel et al.	
	90	5,132,418	07-21-1992	Caruthers et al.	
	91	5,134,066	07-28-1992	Rogers et al.	
	92	5,138,045	08-11-1992	Cook	
	93	5,142,047 A	08-25-1992	Summerton et al.	
	94	5,149,782 A	09-22-1992	Chang et al.	
	95	5,151,510	09-29-1992	Stec et al.	
	96	5,175,273	12-29-1992	Bischofberger et al.	
	97	5,177,196	01-05-1993	Meyer, Jr. et al.	
	98	5,177,198	01-05-1993	Spielvogel et al.	
	99	5,188,897	02-23-1993	Suhadolnik et al.	
	100	5,194,599	03-16-1993	Froehler et al.	
	101	5,212,295 A	05-18-1993	Cook	
	102	5,213,804	05-25-1993	Martin et al.	
	103	5,214,135 A	05-25-1993	Srivastava et al.	
	104	5,214,136	05-25-1993	Lin	

Examiner Signature		Date Considered	
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	105	5,218,105	06-08-1993	Cook	
	106	5,227,170	07-13-1993	Sullivan	
	107	5,245,022	09-14-1993	Weis	
	108	5,254,469	10-19-1993	Warren	
	109	5,258,506	11-02-1993	Urdea	
	110	5,262,536	11-16-1993	Hobbs	
	111	5,264,221	11-23-1993	Tagawa et al.	
	112	5,264,423	11-23-1993	Cohen et al	
	113	5,272,250	12-21-1993	Spielvogel	
	114	5,276,019	01-04-1994	Cohen et al	
	115	5,278,302	01-11-1994	Caruthers et al.	
	116	5,286,717	02-15-1994	Cohen et al	
	117	5,292,873	03-08-1994	Rokita	
	118	5,317,098	05-31-1994	Shizuya	
	119	5,321,131	06-14-1994	Agrawal et al.	
	120	5,354,844	10-11-1994	Beug et al.	
	121	5,356,633	10-18-1994	Woodle et al.	
	122	5,367,066	11-22-1994	Urdea et al.	
	123	5,371,241	12-06-1994	Brush	
	124	5,378,825	01-03-1995	Cook et al.	
	125	5,386,023	01-31-1995	Sanghvi et al.	
	126	5,391,667	02-21-1995	Dellinger	
	127	5,391,723	02-21-1995	Priest	
	128	5,395,619	03-07-1995	Zalipsky et al.	
	129	5,399,676	03-21-1995	Froehler et al.	
	130	5,405,939	04-11-1995	Suhadolnik et al.	

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	131	5,414,077	05-09-1995	Lin	
	132	5,416,016	05-16-1995	Low et al.	
	133	5,416,203	05-16-1995	Letsinger	
	134	5,417,978	05-23-1995	Tari et al.	
	135	5,424,413	06-13-1995	Hogan et al.	
	136	5,432,272	07-11-1995	Benner	
	137	5,451,463	09-19-1995	Nelson	
	138	5,453,496	09-26-1995	Caruthers et al.	
	139	5,455,233	10-03-1995	Spielvogel et al.	
	140	5,457,187	10-10-1995	Gmeiner et al.	
	141	5,457,191	10-10-1995	Cook et al.	
	142	5,459,127	10-17-1995	Felgner et al.	
	143	5,459,255	10-17-1995	Cook et al.	
	144	5,462,854	10-31-1995	Coassini et al.	
	145	5,469,854	11-28-1995	Unger et al.	
	146	5,476,925	12-19-1995	Letsinger et al.	
	147	5,484,908	01-16-1996	Froehler et al.	
	148	5,486,603	01-23-1996	Bahr	
	149	5,502,177	03-26-1996	Matteucci et al.	
	150	5,506,212	04-09-1996	Hoke et al.	
	151	5,506,337	04-09-1996	Summerton et al.	
	152	5,506,351	04-09-1996	McGee	
	153	5,508,270	04-16-1996	Baxter et al.	
	154	5,510,475	04-23-1996	Agrawal	
	155	5,512,295	04-30-1996	Kornberg et al.	
	156	5,512,439	04-30-1996	Hornes	

Examiner Signature		Date Considered	
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	157	5,512,667	04-30-1996	Reed	
	158	5,514,786	05-07-1996	Cook et al.	
	159	5,519,126	05-21-1996	Hecht	
	160	5,521,291	05-28-1996	Curiel et al.	
	161	5,525,465	06-11-1996	Haralambidis	
	162	5,525,711	06-11-1996	Hawkins et al.	
	163	5,527,528	06-18-1996	Allen et al.	
	164	5,527,899	06-18-1996	Froehler	
	165	5,532,130	07-02-1996	Alul	
	166	5,534,259	07-09-1996	Zalipsky et al.	
	167	5,536,821	07-16-1996	Agrawal et al.	
	168	5,539,082	07-23-1996	Nielsen et al.	
	169	5,539,083	07-23-1996	Cook et al.	
	170	5,541,306	07-30-1996	Agrawal et al.	
	171	5,541,313	07-30-1996	Ruth	
	172	5,543,152	08-06-1996	Webb et al.	
	173	5,543,158	08-06-1996	Gref et al.	
	174	5,545,730	08-13-1996	Urdea	
	175	5,547,932	08-20-1996	Curiel et al.	
	176	5,550,111	08-27-1996	Suhadolnik et al.	
	177	5,552,538	09-13-1996	Urdea	
	178	5,552,540	09-03-1996	Haralambidis	
	179	5,556,948	09-17-1996	Tagawa et al.	
	180	5,561,043	10-01-1996	Cantor et al.	
	181	5,563,253	10-08-1996	Agrawal et al.	
	182	5,565,552	10-15-1996	Magda	

Examiner Signature		Date Considered	
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	183	5,565,555	10-15-1996	Froehler et al.	
	184	5,567,810	10-22-1996	Weis	
	185	5,571,799	11-05-1996	Tkachuk et al.	
	186	5,574,142	11-12-1996	Meyer	
	187	5,576,302 A	11-19-1996	Cook et al.	
	188	5,578,717	11-26-1996	Urdea	
	189	5,578,718	11-26-1996	Cook	
	190	5,580,575	12-03-1996	Unger et al.	
	191	5,580,731	12-03-1996	Chang	
	192	5,582,188 A	12-10-1996	Benderev et al.	
	193	5,583,020	12-17-1996	Arnold, Jr. et al.	
	194	5,585,481	12-17-1996	Arnold	
	195	5,587,361	12-24-1996	Cook et al.	
	196	5,587,371	12-24-1996	Sessler	
	197	5,587,469	12-24-1996	Cook et al.	
	198	5,591,584	01-07-1997	Chang	
	199	5,591,721	01-07-1997	Agrawal et al.	
	200	5,594,121	01-14-1997	Froehler et al.	
	201	5,595,726	01-21-1997	Magda	
	202	5,595,756	01-21-1997	Bally et al.	
	203	5,596,091	01-21-1997	Switzer et al.	
	204	5,597,696	01-28-1997	Linn	
	205	5,599,797 A	02-04-1997	Cook et al.	
	206	5,599,923	02-04-1997	Sessler	
	207	5,599,925	02-04-1997	Torii	
	208	5,599,928	02-04-1997	Hemmi et al.	

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	209	5,607,923 A	03-04-1997	Cook et al.	
	210	5,612,469 A	03-18-1997	Goodchild	
	211	5,614,617	03-25-1997	Cook et al.	
	212	5,614,621	03-25-1997	Ravikumar et al.	
	213	5,625,050	04-29-1997	Beaton et al.	
	214	5,631,148	05-20-1997	Urdea	
	215	5,634,488 A	06-03-1997	Martin, Jr.	
	216	5,635,488 A	06-03-1997	Cook et al.	
	217	5,639,647 A	06-17-1997	Usman et al.	
	218	5,643,889 A	07-01-1997	Suhadolnik et al.	
	219	5,645,985	07-08-1997	Froehler et al.	
	220	5,658,731 A	08-19-1997	Sproat et al.	
	221	5,661,134 A	08-26-1997	Cook et al.	
	222	5,663,360 A	09-02-1997	Bortolaso et al.	
	223	5,672,662 A	09-30-1997	Harris et al.	
	224	5,672,695 A	09-30-1997	Eckstein et al.	
	225	5,672,697	09-30-1997	Buhr et al.	
	226	5,677,289 A	10-14-1997	Torrence et al.	
	227	5,681,941	10-28-1997	Cook et al.	
	228	5,684,142 A	11-04-1997	Mishra et al.	
	229	5,684,143 A	11-04-1997	Gryaznov et al.	
	230	5,684,243 A	11-04-1997	Gururaja et al.	
	231	5,688,941	11-18-1997	Cook	
	232	5,698,687 A	12-16-1997	Eckstein et al.	
	233	5,700,785 A	12-23-1997	Suhadolnik et al.	
	234	5,714,166 A	02-03-1998	Tomalia et al.	

Examiner Signature		Date Considered	
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	235	5,714,331	02-03-1998	Buchardt et al.	
	236	5,716,824 A	02-10-1998	Beigelman et al.	
	237	5,719,262	02-17-1998	Buchardt et al.	
	238	5,719,271	02-17-1998	Cook et al.	
	239	5,721,218	02-24-1998	Froehler et al.	
	240	5,726,297 A	03-10-1998	Gryaznov et al.	
	241	5,750,666 A	05-12-1998	Caruthers et al.	
	242	5,750,669 A	05-12-1998	Rosch et al.	
	243	5,750,692	05-12-1998	Cook et al.	
	244	5,760,202	06-02-1998	Cook et al.	
	245	5,763,588	06-09-1998	Matteucci et al.	
	246	5,770,713	06-23-1998	Imbach et al.	
	247	5,770,716 A	06-23-1998	Khan et al.	
	248	5,777,092 A	07-07-1998	Cook et al.	
	249	5,789,576 A	08-04-1998	Daily et al.	
	250	5,792,844 A	08-11-1998	Sanghvi et al.	
	251	5,792,847 A	08-11-1998	Buhr et al.	
	252	5,801,154 A	09-01-1998	Baracchini et al.	
	253	5,804,683	09-08-1998	Usman et al.	
	254	5,808,023 A	09-15-1998	Sanghvi et al.	
	255	5,817,781 A	10-06-1998	Swaminathan et al.	
	256	5,830,635 A	11-03-1998	Agnello	
	257	5,830,653	11-03-1998	Froehler et al.	
	258	5,837,835 A	11-17-1998	Gryaznov et al.	
	259	5,837,852 A	11-17-1998	Chung et al.	
	260	5,840,876 A	11-24-1998	Beigelman et al.	

Examiner Signature		Date Considered	
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<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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U. S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number – Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	261	5,859,221 A	01-12-1999	Cook et al.	
	262	5,861,493	01-19-1999	Cook et al.	
	263	5,872,232 A	02-16-1999	Cook et al.	
	264	5,874,553	02-23-1999	Peyman et al.	
	265	5,891,683	04-06-1999	Usman et al.	
	266	5,891,684	04-06-1999	Usman et al.	
	267	5,914,396 A	06-22-1999	Cook et al.	
	268	5,936,080 A	08-10-1999	Stec et al.	
	269	5,945,521 A	08-31-1999	Just et al.	
	270	5,962,425	10-05-1999	Walder et al.	
	271	5,965,720 A	10-12-1999	Gryaznov et al.	
	272	5,965,721 A	10-12-1999	Cook et al.	
	273	5,969,116 A	10-19-1999	Martin	
	274	5,969,118 A	10-19-1999	Sanghvi et al.	
	275	5,986,083 A	11-16-1999	Dwyer et al.	
	276	5,998,203	12-07-1999	Matulic-Adamic et al.	
	277	5,998,588 A	12-07-1999	Hoffman et al.	
	278	6,001,841	12-14-1999	Cook et al.	
	279	6,005,087	12-21-1999	Cook et al.	
	280	6,005,094 A	12-21-1999	Simon et al.	
	281	6,005,096	12-21-1999	Matteucci et al.	
	282	6,007,992	12-28-1999	Lin et al.	
	283	6,013,785 A	01-11-2000	Bruice et al.	
	284	6,015,886 A	01-18-2000	Dale et al.	
	285	6,020,475	02-01-2000	Capaldi et al.	
	286	6,025,140	02-15-2000	Langel et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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U. S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number – Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	287	6,028,183	02-22-2000	Lin et al.	
	288	6,028,188 A	02-22-2000	Arnold, Jr. et al.	
	289	6,037,463	03-14-2000	Uhlmann et al.	
	290	6,043,060	03-28-2000	Imanishi	
	291	6,043,352 A	03-28-2000	Manoharan et al.	
	292	6,051,699	04-18-2000	Ravikumar	
	293	6,087,484 A	07-11-2000	Goodchild	
	294	6,096,875 A	08-01-2000	Khan et al.	
	295	6,111,085 A	08-29-2000	Cook et al.	
	296	6,117,657 A	09-12-2000	Usman et al.	
	297	6,121,437	09-19-2000	Guzaev et al.	
	298	6,127,346	10-03-2000	Peyman et al.	
	299	6,127,533 A	10-03-2000	Cook et al.	
	300	6,147,200	11-14-2000	Manoharan et al.	
	301	6,153,737 A	11-28-2000	Manoharan et al.	
	302	6,166,188 A	12-26-2000	Cook et al.	
	303	6,169,177	01-02-2001	Manoharan	
	304	6,172,208 B1	01-09-2001	Cook	
	305	6,172,216 B1	01-09-2001	Bennett et al.	
	306	6,207,646	03-27-2001	Krieg et al.	
	307	6,210,892 B1	04-03-2001	Bennett et al.	
	308	6,220,025 B1	04-24-2001	Mauti et al.	
	309	6,222,025 B1	04-24-2001	Cook et al.	
	310	6,227,982 B1	05-08-2001	Wurster	
	311	6,239,265 B1	05-29-2001	Cook	
	312	6,239,272 B1	05-29-2001	Beigelman et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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U. S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number – Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	313	6,262,241 B1	07-17-2001	Cook et al.	
	314	6,268,490	07-31-2001	Imanishi et al.	
	315	6,274,723 B1	08-14-2001	Nilsen	
	316	6,277,634	08-21-2001	McCall et al.	
	317	6,277,967 B1	08-21-2001	Manoharan	
	318	6,281,201 B1	08-28-2001	Suhadolnik et al.	
	319	6,284,538 B1	09-04-2001	Monia et al.	
	320	6,287,860	09-11-2001	Monia et al.	
	321	6,300,319 B1	10-09-2001	Manoharan	
	322	6,307,040 B1	10-23-2001	Cook et al.	
	323	6,326,358 B1	12-04-2001	Manoharan	
	324	6,326,478	12-04-2001	Cheruvallath et al.	
	325	6,331,617 B1	12-18-2001	Weeks et al.	
	326	6,335,432 B1	01-01-2002	Segev	
	327	6,335,434 B1	01-01-2002	Guzaev et al.	
	328	6,335,437 B1	01-01-2002	Manoharan et al.	
	329	6,344,436 B1	02-05-2002	Smith et al.	
	330	6,358,931 B1	03-19-2002	Cook et al.	
	331	6,365,379 B1	04-02-2002	Lima et al.	
	332	6,395,437 B1	05-28-2002	Wollesen	
	333	6,395,492 B1	05-28-2002	Manoharan et al.	
	334	6,410,702 B1	06-25-2002	Swaminathan et al.	
	335	6,414,127	07-02-2002	Lin et al.	
	336	6,420,549 B1	07-16-2002	Cook et al.	
	337	6,426,220	07-30-2002	Bennett et al.	
	338	6,436,640 B1	08-20-2002	Simmons et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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Examiner Initials	Cite No.	Document Number Number – Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	339	6,440,943 B1	08-27-2002	Cook et al.	
	340	6,444,806 B1	09-03-2002	Veerapanani et al.	
	341	6,465,628	10-15-2002	Ravikumar et al.	
	342	6,476,205 B1	11-05-2002	Buhr et al.	
	343	6,486,308 B2	11-26-2002	Kutyavin et al.	
	344	6,506,559 B1	01-14-2003	Fire et al.	
	345	6,525,031 B2	02-25-2003	Manoharan	
	346	6,528,631 B1	03-04-2003	Cook et al.	
	347	6,531,584 B1	03-11-2003	Cook et al.	
	348	6,534,639 B1	03-18-2003	Manoharan et al.	
	349	6,559,279 B1	05-06-2003	Manoharan et al.	
	350	6,573,072 B1	06-03-2003	Goodchild	
	351	6,593,466	07-15-2003	Manoharan et al.	
	352	6,656,730	12-02-2003	Manoharan	
	353	6,670,461	12-30-2003	Wengel et al.	
	354	6,673,611 B2	01-06-2004	Thompson et al.	
	355	6,683,167 B2	01-27-2004	Metelev et al.	
	356	6,794,499	09-21-2004	Wengel et al.	
	357	6,818,759 B2	11-16-2004	Beigelman et al.	
	358	6,849,726 B2	02-01-2005	Usman et al.	
	359	6,887,906	05-03-2005	Teng et al.	
	360	7,022,828 B2	04-04-2006	McSwiggen	
	361	RE34,069	09-15-1992	Koster et al.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code- Number -Kind Code (if known)				
	362	CA 2,017,369 C	01-23-2001	Roche Diagnostics GmbH		
	363	DE 10100588 A1	07-18-2002	Ribopharma		X
	364	DE 3915432 A1	11-15-1990	Klockner-Humboldt-Deutz AG		X
	365	DE 4110085 A1	01-10-1992	Boehringer Ingelheim Int'l. GmbH		X
	366	EP 0260032 A2	03-16-1988	Ajinmoto Co., Inc.		
	367	EP 0266168 A2	05-04-1988	Amoco Corp.		
	368	EP 0269574 A2	06-01-1988	Nippon Zoki Pharmaceutical Co. Ltd.		
	369	EP 0287313 A2	10-19-1988	Marquez		
	370	EP 0339330 A2	11-02-1989	Spradau, Hans F.W.		
	371	EP 0417999 A1	03-20-1991	The Wellcome Foundation Limited		
	372	EP 1389637 A1	02-18-2004	Atugen AG		
	373	EP 339842 A2	11-02-1989	Ajinomoto KK		
	374	JP 2-264792 A	10-29-1990	Ajinomoto KK		
	375	WO 00/76554 A1	12-21-2000	Isis Pharmaceuticals, Inc.		
	376	WO 01/049687 A2	07-12-2001	K.U. Leuven Research & Development		
	377	WO 01/48183 A2	07-05-2001	Devgen NV		
	378	WO 02/36743 A2	05-10-2002	Isis Pharmaceuticals, Inc.		
	379	WO 02/38578 A1	05-16-2002	Chattopadhyaya		
	380	WO 03/004602 A2	01-16-2003	Isis Pharmaceuticals, Inc.		
	381	WO 03/070918 A2	08-28-2003	Ribozyme Pharm Inc.		
	382	WO 2004/015107 A2	02-19-2004	Atugen AG		
	383	WO 2004/041889 A2	05-21-2004	Isis Pharm.		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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	384	WO 2004/043977 A2	05-27-2004	Isis Pharm.		
	385	WO 2004/043978 A2	05-27-2004	Isis Pharm.		
	386	WO 2004/043979 A2	05-27-2004	Isis Pharm.		
	387	WO 2004/044133 A2	05-27-2004	Isis Pharm.		
	388	WO 2004/044136 A2	05-27-2004	Isis Pharm.		
	389	WO 2004/044138 A2	05-27-2004	Isis Pharm.		
	390	WO 2004/044139 A2	05-27-2004	Isis Pharmaceuticals Inc.		
	391	WO 2004/044140 A2	05-27-2004	Isis Pharm.		
	392	WO 2004/083430 A2	09-30-2004	Elmen et al.		
	393	WO 2004/097049 A1	11-11-2004	Isis Pharmaceuticals, Inc.		
	394	WO 2004/113496 A2	12-29-2004	Isis Pharm.		
	395	WO 2005/027962 A2	03-31-2005	Isis Pharm.		
	396	WO 90/15814 A1	12-27-1990	Meiogenics, Inc.		
	397	WO 91/06556 A1	05-16-1991	Gilead Sciences, Inc.		
	398	WO 91/10671 A1	07-25-1991	Isis Pharmaceuticals, Inc.		
	399	WO 91/15499 A1	10-17-1991	Europaisches Laboratorium Fur Molekularbiologie		
	400	WO 92/02258 A1	02-20-1992	Isis Pharmaceuticals, Inc.		
	401	WO 92/03452 A1	03-05-1992	Isis Pharmaceuticals, Inc.		
	402	WO 92/03568 A1	03-05-1992	Isis Pharmaceuticals, Inc.		
	403	WO 92/07065 A1	04-30-1992	Max Planck Gesellschaft		
	404	WO 92/20822 A1	11-26-1992	Isis Pharmaceuticals, Inc.		
	405	WO 92/20823 A1	11-26-1992	Isis Pharmaceuticals, Inc.		
	406	WO 92/22651 A1	12-23-1992	Isis Pharmaceuticals, Inc.		
Examiner Signature				Date Considered		

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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FOREIGN PATENT DOCUMENTS						
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	407	WO 93/07883 A1	04-29-1993	Isis Pharmaceuticals, Inc.		
	408	WO 93/24510 A1	12-09-1993	Centre National de la Recherche		
	409	WO 94/02498 A1	02-03-1994	Worcester Foundation for Experimental Biology		
	410	WO 94/02499 A1	02-03-1994	Hybridon, Inc.		
	411	WO 94/02501 A1	02-03-1994	Isis Pharmaceuticals, Inc.		
	412	WO 94/17093 A1	08-04-1994	Hybridon, Inc.		
	413	WO 94/26764 A1	11-24-1994	Centre National de la Recherche		
	414	WO 96/07392 A2	03-14-1996	Hybridon, Inc.		
	415	WO 96/11205 A1	04-18-1996	Isis Pharmaceuticals, Inc.		
	416	WO 97/26270 A2	07-24-1997	Ribozyme Pharm.		
	417	WO 97/30064 A1	08-21-1997	Stichting REGA		
	418	WO 97/46570 A1	12-11-1997	Isis Pharmaceuticals, Inc.		
	419	WO 98/16550 A1	04-23-1998	Isis Innovation Limited		
	420	WO 98/39352 A1	09-11-1998	Imanishi		
	421	WO 98/52614 A2	11-26-1998	The Board of Trustees of the Leland Stanford Junior Univ.		

Examiner Signature		Date Considered	
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Substitute for 1449/PTO				<i>Complete if Known</i>	
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), Volume-issue Number(s), publisher, city and/or country where published.			
	422	Abe, A., et al., "Conformational energies and the random-coil dimensions and dipole moments of the polyoxides CH ₃ O(CH ₂) _y O)xCH ₃ ," J. Am. Chem. Soc., 1976, 98(21), 6468-6476			
	423	Afonina, I. et al., "Sequence-specific arrest of primer extension on single-stranded DNA by an oligonucleotide-minor groove binder conjugate," Proc. Natl. Acad. Sci. USA (1996) 93:3199-3204.			
	424	Agrawal, et al., "Oligodeoxynucleoside Phosphoramidates and Phosphorothioates as Inhibitors of Human Immunodeficiency Virus" Proc. Natl. Acad. Sci. USA , 1988, 85, 7079-7083			
	425	Agarwal, et al., "Synthesis and Enzymatic Properties of Deoxyribooligonucleotides Containing Methyl and Phenylphosphonate Linkages", Nucleic Acid Research 1979, 6, 3009-3024			
	426	Agrawal, S. et al., "Synthesis and Anti-HIV Activity of Oligoribonucleotides and Their Phosphorothioate Analogs," Ann. N.Y. Acad. Sci., 1992, 2-10			
	427	Agrawal, S., "Antisense Oligonucleotides: Towards Clinical Trials," TIBTECH, 1996, 14, 376-388			
	428	Agris, et al., "Inhibition of Vesicular Stomatitis Virus Protein Synthesis and Infection by Sequence-Specific Oligodeoxyribonucleoside Methylphosphonates", Biochemistry 1986, 25, 6268-6275			
	429	Akashi, et al., "Novel Stationary Phases for Affinity Chromatography. Nucleobase-Selective Recognition of Nucleosides and Nucleotides on Poly(9-vinyladenine)-Supported Silica Gel)", Chem. Letters, 1988, 1093-1096			
	430	Alahari, "Novel chemically modified oligonucleotides provide potent inhibition of P-glycoprotein expression," J. Pharmacology and Experimental Therapeutics, 1998, 286(1), 419-428			
	431	Alberts, et al., "DNA-Cellulose Chromatography", Meth. Enzymol., 1971, 21, 198-217			
	432	Allerson, C.R. et al., Abstract of the 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004			
	433	Allerson, C.R. et al., "Fully 2'-Modified Oligonucleotide Duplexes with Improved in Vitro Potency and Stability Compared to Unmodified Small Interfering RNA," J. Med. Chem., 2005, 48, 901-904			
	434	Altschul, S.F. et al., "Basic Local Alignment Search Tool," J. Mol. Biol., 1990, 215, 403-410			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	19	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	435	Ambros, V. et al., "A uniform system for MicroRNA annotation," RNA (2003) 9: 277-279			
	436	Ambros, V. et al., "MicroRNAs and Other Tiny Endogenous RNAs in C. elegans," Curr Biol. (2003) 13: 807-818			
	437	Ambros, V. et al., "MicroRNAs: Tiny Regulators with Great Potential," Cell (2001) 107: 823-826			
	438	Antopolksy, M. et al., "Peptide-Oligonucleotide Phosphorothioate Conjugates with Membrane Translocation and Nuclear Localization Properties," Bioconjugate Chem. (1999) 10(4):598-606.			
	439	Arar, K. et al., "Synthesis and Antiviral Activity of Peptide-Oligonucleotide Conjugates Prepared by Using Na-(Bromoacetyl)peptides," Bioconjugate Chem. (1995) 6(5):573-577.			
	440	Arndt-Jovin, et al., "Covalent Attachment of DNA to Agarose", Eur. J. Biochem., 1975, 54, 411-418			
	441	Arnott, S., et al., "Optimised parameters for A-DNA and B-DNA," Biochem. & Biophys. Res. Comm., 1972, 47(6), 1504-1510			
	442	Arya, S. K. et al., "Inhibition of RNA Directed DNA Polymerase of Murine Leukemia Virus by 2'-O-Alkylated Polyadenylic Acids," Biochemical and Biophysical Research Communications, 1974, 59(2), 608-615			
	443	Arya, S. K. et al., "Inhibition of Synthesis of Murine Leukemia Virus in Cultured Cells by Polyribonucleotides and Their 2'-O-Alkyl Derivatives," Molecular Pharmacology, 1976, 12, 234-241			
	444	Asseline, U. et al., "Nucleic acid-binding molecules with high affinity and base sequence specificity: Intercalating agents covalently linked to oligodeoxynucleotides," Proc. Natl. Acad. Sci USA (1984) 81: 3297-3301			
	445	Astriab-Fisher et al., "Conjugates of antisense oligonucleotides with the TAT and antennapedia cell-penetrating peptides: effects on cellular uptake, binding to target sequences and biologic actions," Pharmaceutical Research (2002) 19(6): 744-754			
	446	Astriab-Fisher, A. et al., "Antisense Inhibition of P-glycoprotein Expression Using Peptide-Oligonucleotide Conjugates," Biochem. Pharmacol. (2000) 60, 243-90.			
	447	Baker, B. F. et al., "Oligonucleotide-europium complex conjugate designed to cleave the 5' cap structure of the ICAM-I transcript potentiates antisense activity in cells," Nucleic Acids Res. (1999) 27(6):1547-1551.			
	448	Bartel, B. et al., "MicroRNAs: At the Root of Plant Development," Plant Physiol. (2003) 132: 709-717			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	20	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	449	Bayer, E. et al., "A New Support for Polypeptide Synthesis in Columns," Tetrahedron Letters, 1970, 51, 4503-4505			
	450	Beaucage et al. "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives", (1993) Tetrahedron 49(10):1925-1963			
	451	Beaucage S. and Iyer, R., "Advances in the synthesis of oligonucleotides by the phosphoramidite approach", Tetrahedron Letters, 1992, 48, 2223-2311			
	452	Beaucage S. and Iyer, R., "The synthesis of modified oligonucleotides by the phosphoramidite approach and their applications", Tetrahedron, 1993, 49, 6123-6194			
	453	Beaucage, S.L. et al., "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis.", Tetrahedron Letts., 1981, 22, 1859-1862			
	454	Berger, "Crystal structures of B-DNA with incorporated 2'-deoxy-2'-fluoro-arabino-furanosyl thymines: implications of conformational preorganization for duplex stability," Nucleic Acids Research, 1998, 26, 2473-2480			
	455	Bevilacqua et al., "Minor-Groove Recognition of Double-Stranded RNA by the Double-Stranded RNA-Binding Domain from the RNA-Activated Protein Kinase PKR," Biochemistry, 1996, 35, 9983-9994			
	456	Bhat, et al., "A Simple and Convenient Method for the Selective N-Acylations of Cytosine Nucleosides", Nucleosides and Nucleotides, 1989, 8, 179-183			
	457	Biggadike, et al., "Short convergent route to homochiral carbocyclic 2'-deoxynucleosides and carbocyclic ribonucleosides", J. Chem. Soc. Chem. Commun. 1987, 1083-1084			
	458	Blanks, et al., "An oligodeoxynucleotide affinity column for the isolation of sequence specific DNA binding proteins", Nucleic Acids Res., 1988, 16, 10283-10299			
	459	Blomberg, P., "Control of replication of plasmid R1: the duplex between the antisense RNA, CopA, and its target, CopT, is processed specifically in vivo and in vitro by RNase III", EMBO J., 1990, 9, 2331-2340			
	460	Bollig, F. et al., "Affinity purification of ARE-binding proteins identifies poly(A)-binding protein 1 as a potential substrate in MK2-induced mRNA stabilization," Biochem. Biophys. Res. Commun. (2003) 301: 665-670			
	461	Bongartz, J.-P. et al., "Improved biological activity of antisense oligonucleotides conjugated to a fusogenic peptide," Nucleic Acids Res. (1994) 22(22):4681-4688.			
	462	Bonora, G. M. et al., "Antisense activity of an anti-HIV oligonucleotide conjugated to linear and branched high molecular weight polyethylene glycols," Farmaco (1998) 53:634-637.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	21	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	463	Bonora, G. M. et al., "Biological Properties of Antisense Oligonucleotides Conjugated to - Different High-Molecular Mass Poly(Ethy1en Glycols)," Nucleosides Nucleotides (1999) 18(6&7):1723-1725			
	464	Bonora, G.M., et al., "A liquid-phase process suitable for large-scale synthesis of phosphorothioate oligonucleotides," Organic Process Res. & Develop., 2000, 225-231			
	465	Borer, et al., "Stability of ribonucleic acid double-stranded helices," J. Mol. Biol., 1974, 86, 843-853			
	466	Braasch et al., "Antisense inhibition of gene expression in cells by oligonucleotides incorporating locked nucleic acids: effect of mRNA target sequence and chimera design," Nucleic Acids Research, 2002, 30, 5160-5167			
	467	Braasch, D.A. et al., "Locked nucleic acid (LNA): fine-tuning the recognition of DNA and RNA," Chem Biol, 2001, 8, 1-7			
	468	Braasch, D.A., et al., "Novel antisense and peptide nucleic acid strategies for controlling gene expression," Biochemistry, April 9, 2002, 41(14), 4503-4510			
	469	Branda et al., "Amplification of antibody production by phosphorothioate oligodeoxynucleotides," J. Lab. Clin. Med., 1996, 128(3), 329-338			
	470	Branden, L. J. et al., "A peptide nucleic acid-nuclear localization signal fusion that mediates nuclear transport of DNA," Nature Biotech (1999) 17:784-787.			
	471	Brazma, A., et al., "Gene expression data analysis," FEBS Lett., 2000, 480, 17-24			
	472	Brill, et al., "Synthesis of Oligodeoxynucleoside Phosphorodithioates Via Thioamidites", J. Am. Chem. Soc. 1989, 111, 2321-2322			
	473	Brown-Driver et al., "Inhibition of Translation of Hepatitis C Virus RNA by 2'-Modified Antisense Oligonucleotides," Antisense Nucleic Acid Drug Dev. (1999) 9(2): 145-154			
	474	Buhr, C.A. et al., "Oligodeoxynucleotides containing C-7 propyne analogs of 7-deaza-2'-deoxyguanosine and 7-deaza-2'-deoxyadenosine," Nucleic Acids Research, 1996, 24(15), 2974-2980			
	475	Bunemann, et al., Immobilization of denatured DNA to macroporous supports: I. Efficiency of different coupling procedures", Nucleic Acids Res., 1982, 10, 7163-7180			
	476	Bunemann, H., "Immobilization of denatured DNA to macroporous supports: II. Steric and kinetic parameters of heterogeneous hybridization reactions", Nucleic Acids Res., 1982, 10, 7181-7196			

Examiner Signature		Date Considered
--------------------	--	-----------------

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	22	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS				
	477	Butke, et al., "Facile synthesis of 2'amino-2deoxynucleoside from the corresponding arabino derivative," Nucleic Acid Chemistry, 1986, Part Three, 149-152		
	478	Butler, M. et al., "Specific Inhibition of PTEN Expression Reverses Hyperglycemia in Diabetic Mice," Diabetes, 2002, 51, 1028-1034		
	479	Caplen et al., "dsRNA-mediated gene silencing in cultured Drosophila cells: a tissue culture model for the analysis of RNA interference," GENE (2000) 252: 95-105		
	480	Carmell, M.A. et al., "the argonaute family: tentacles that reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis," Genes and Development, 2002, 16, 2733-2742		
	481	Carulli, J.P., et al., "High throughput analysis of differential gene expression," J. Cellular Biochem. Suppl., 1998, 30(31), 286-296		
	482	Caruthers, M., "Synthesis of Oligonucleotides and Oligonucleotide Analogues", in "Oligonucleotides. Antisense Inhibitors of Gene Expression.", J.S. Cohen, Ed., CRC Press, Inc., 7-24, (1989)		
	483	Castle, et al., "Imidazo[4, 5-D]pyridazines. I. Synthesis of 4,7-disubstituted derivatives", Journal of Organic Chemistry, 1958, 23, 1534-1538		
	484	Cazalla, D. et al., "Nuclear Export and Retention Signals in the RS Domain of SR Proteins," Mol. Cell. Biol. (2002) 22(19):6871-6882.		
	485	Cazenave, C. et al., "Enzymatic amplification of translation inhibition of rabbit β -globin mRNA mediated by anti-messenger oligodeoxynucleotides covalently linked to intercalating agents", Nucl. Acids Res., 1987, 15, 4717-4736		
	486	Celis, J.E., et al., "Gene expression profiling: monitoring transcription and translation production using DNA microarrays and proteomics," FEBS Lett., 2000, 480, 2-16		
	487	Cerutti, H., "RNA interference: traveling in the cell and gaining functions?" Trends in Genetics (2003) 19(1): 39-46		
	488	Chaloin, L. et al., "Design of Carrier Peptide-Oligonucleotide Conjugates with Rapid Membrane Translocation and Nuclear Localization Properties," Biochem. Biophys. Res. Commun. (1998) 243:601-608		
	489	Chaput, J.C., et al., "DNA polymerase-mediated DNA synthesis on a TNA template," J. Am. Chem. Soc., 2003, 125, 856-857		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
				First Named Inventor	Charles Allerson
				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	23	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	490	Chen and Wu, "Studies on Fluoroalkylation and Fluoroalkoxylation. Part 33. Direct Trifluoromethylation of Aryl Halides with Fluorosulphonyldifluoromethyl Iodide in the Presence of Copper: an Electron Transfer Induced Process," J. Chem. Soc., Perkin Transactions, 1989, 1, 2385-2387.			
	491	Chiang et al., "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms." J. Biol. Chem., 1991, 266, 18162-18171			
	492	Chiu, Y.-L. et al., "RNAi in human cells: basic structural and functional features of small interfering RNA," Molecular Cell, September 2002, 10, 549-561			
	493	Chladek, et al., "Facile Synthesis of 2'Amino-2'Deoxyadenosine," J. Carbohydrates, Nucleosides & Nucleotides, 1980, 7, 63-75.			
	494	Chodosh, et al., "A Single Polypeptide Possesses the Binding and Transcription Activities of the Adenovirus Major Late Transcription Factor", Mol. Cell. Biol., 1986, 6, 4723-4733			
	495	Choung, S. et al., "Chemical modification of siRNAs to improve serum stability without loss of efficacy," Biochemical and Biophysical Research Communications, 2006, 342, 919-927			
	496	Christofferson et al., "Ribozymes as human therapeutic agents", J. Med. Chem., 1995, 38(12), 2023-2037			
	497	Chun-Nam Lok et al., "Potent gene-specific inhibitory properties of mixed backbone antisense oligonucleotides comprised of 2' -deoxy-2' -fluoro-D-arabinose and 2' -deoxyribose nucleotides," Biochemistry, 2002, 41, 3457-3467			
	498	Cogoni, C. et al., "Post-transcriptional gene silencing across kingdoms," Curr. Opin. Genet Dev., 2000, 10(6), 638-643			
	499	Cohen, G. L. et al., "Sequence Dependent Binding of cis-Dichlorodiammineplatinum(II) to DNA," J. Am. Chem. Soc. (1980) 102(7), 2487-2488.			
	500	Concise Encyclopedia of Polymer Science and Engineering, pgs. 858-859, Kroschwitz, J.I., Ed., John Wiley & Sons, 1990			
	501	Constant et al., "Heterodimeric Molecules Including Nucleic Acid Bases and 9-Aminoacridine Spectroscopic Studies, Conformations, and Interactions with DNA", Biochemistry, 1988, 27, 3997-4003			
	502	Conte, M.R., et al., "Conformational properties and thermodynamics of the RNA duplex r(CGCAAAUUUGCG)2: comparison with the DNA analogue d(CGCAAATTCGCG)2," Nucleic Acids Res., 1997, 25(13), 2627-2634			
	503	Cook, "Medicinal chemistry of antisense oligonucleotides - future opportunities," Anti-Cancer Drug Design, 1991, 6, 585-607			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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NON PATENT LITERATURE DOCUMENTS					
	504	Copy of PCT International Search Report dated January 24, 2005 (PCTUS03/35087)			
	505	Copy of the PCT International Search Report dated August 23, 2004 (PCT/US03/35063)			
	506	Corey, D. R. et al., "Generation of a Hybrid Sequence-Specific Single-Stranded Deoxyribonuclease," Science (1987) 238:1401-1403.			
	507	Corey, D. R. et al., "Sequence-Selective Hydrolysis of Duplex DNA by an Oligonucleotide-Directed Nuclease," J. Am. Chem. Soc. (1989) 111(22):8523-8525.			
	508	Corey, D. R., "48000-fold Acceleration of Hybridization by Chemically Modified Oligonucleotides," J. Am. Chem. Soc. (1995) 117(36):9373-9374.			
	509	Cornell, W. D. et al., "A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules," J. Am. Chem. Soc., 1995, 117, 5179-5197			
	510	Cossum, P.A. et al., "Disposition of the 14C-Labeled Phosphorothioate Oligonucleotide ISIS 2105 after Intravenous Administration to Rats," J. Pharmacol. Exp. Ther., 1993, 267(3), 1181-1190			
	511	Couzin, J., "Small TNAs Make Big Splash," Science (2002) 298: 2296-2297			
	512	Crawford, J.M., "Role of Vesicle-Mediated Transport Pathways in Hepatocellular Bile Secretion," Semin. Liver Dis., 1996, 16(2), 169-189			
	513	Crooke, et al., "Kinetic characteristics of Escherichia coli RNase H1: cleavage of various antisense oligonucleotide-RNA duplexes", Biochem. J., 1995, 312, 599-608			
	514	Crooke, et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", J. Pharmacol. Exp. Therm., 1996, 277, 923-927			
	515	Crooke, S.T. and Bennett, C.F., "Progress in Antisense Oligonucleotide Therapeutics", Annu. Rev. Pharmacol. Toxicol., 1996, 36, 107-129			
	516	Crooke, S.T., Antisense Research & Application, Chapter 1, Pages 1-50, Publ. Springer-Verlag, Ed. S.T. Crooke (1998).			
	517	Cummins, L.L. et al., "Characterization of fully 2'modified oligoribonucleotide hetero- and homoduplex hybridization and nuclease sensitivity," Nucleic Acids Research, 1995, 23(11), 2019-2024			
	518	Dagle, et al., "Pathways of Degradation and Mechanism of Action of Antisense Oligonucleotides in Xenopus laevis Embryos", Antisense Res. And Dev., 1991, 1, 11-20			
	519	Dagle, et al., "Physical properties of oligonucleotides containing phosphoramidate-modified internucleoside linkages", Nucleic Acids Research, 1991, 19, 1805-1810			
Examiner Signature				Date Considered	

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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				Art Unit	1635
Examiner Name	Jane J. Zara				
Sheet	25	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	520	Dagle, et al., "Targeted degradation of mRNA in Xenopus oocytes and embryos directed by modified oligonucleotides: studies of An2 and cyclin in embryogenesis", Nucleic Acids Research, 1990, 18, 4751-4757			
	521	Dahl, B.H. et al., "A Highly Reactive, Odourless Substitute for Thiphenoxy/Triethylamine as a Deprotection Reagent in the Synthesis of Oligonucleotides and their Analogues," Acta Chem. Scand., 1990, 44, 639-641			
	522	Dake, et al., "Purification and Properties of the Major Nuclease from Mitochondria of Saccharomyces cerevisiae", J. Biol. Chem., 1988, 263, 7691-7702			
	523	Damha, et al., "Solution and solid phase chemical synthesis of arabinonucleotides", Can J. Chem., 1989, 831-839			
	524	Damha, M.J., et al., "Hybrids of RNA and arabinonucleic acids (ANA and 2'F-ANA) are substrates of ribonuclease H," J. Am. Chem. Soc., 1998, 120, 12976-12977			
	525	Dande, P. et al., Abstract from The 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004			
	526	Day, et al., "Immobilization of polynucleotides on magnetic particles", Biochem. J., 1991, 278, 735-740			
	527	De las Heras, et al., "3'-C-Cyano-3'-Deoxythymidine," Tetrahedron Letters, 1988, 29, 941-944			
	528	De Mesmeker, et al., "Antisense Oligonucleotides", Acc. Chem. Res., 1995, 28, 366-374			
	529	De Clercq, E. et al., "Influence of various 2- and 2'-substituted polyadenyl acids on murine leukemia virus reverse transcriptase," Cancer Letters, 1979, 7, 27-37			
	530	Dellinger, D.J. et al., "Solid-Phase Chemical Synthesis of Phosphonoacetate and Thiophosphonoacetate Oligodeoxynucleotides," J. Am. Chem. Soc., 2003, 125(4), 940-950			
	531	Denny, W.A., "DNA-intercalating ligands as anti-cancer drugs: prospects for future design," Anti-Cancer Drug Design, 1989, 4, 241-263			
	532	Dignam, et al., "Accurate transcription initiation by RNA polymerase II in a soluble extract from isolated mammalian nuclei," Nucleic Acids Res., 1983, 11, 1475-1489			
	533	Divakar, et al., "Approaches to the Synthesis of 2'-Thio Analogues of Pyrimidine Ribosides", J. Chem. Soc., Perkins Trans., I, 1990, 969-974			
	534	Divakar, et al., "Reaction Between 2,2'-Anhydro-1-β-D-arrabinofuranosyluracil and Thiolate Ions", J. Chem. Soc., Perkins Trans. I, 1982, 1625-1628			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	26	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	535	Dreyer, et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(II)", Proc. Natl. Acad. Sci. USA, 1985, 82, 968-972			
	536	Drmanac, et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing", Science, 1993, 260, 1649-1652			
	537	Duff, R. J. et al., "[17] Intrabody Tissue-Specific Delivery of Antisense Conjugates in Animals: Ligand-Linker-Antisense Oligomer Conjugates," Methods Enzymol. (2000) 313:297-321.			
	538	Duncan, et al., "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides", Anal. Biochem., 1988, 169, 104-108			
	539	Dunn, J.J. and Studier, F.W., "Effect of RNAase III Cleavage on Translation of Bacteriophage T7 Messenger RNAs", J. Mol. Biol., 1975, 99, 487-499			
	540	Eckstein, et al., "Polynucleotides Containing 2'Chloro-2'Deoxyribose", Biochemistry, 1972, 11, 4336-4344			
	541	Eddy, S.R., "Non-Coding RNA Genes and the Modern RNA World," Nature Rev. Genetics (2001) 2: 919-929			
	542	Eder, P.S. and Walder, J.A., "Ribonuclease H from K562 Human Erythroleukemia Cells", J. Biol. Chem., 1991, 266, 6472-6479			
	543	Efimov, V. A. et al., "Synthesis of Polyethylene Glycol - Oligonucleotide Conjugates," Bioorg. Khim. (1993) 19(8):800-804.			
	544	Egli, M. et al., "RNA Hydration: A Detailed Look," Biochemistry, 1996, 35, 8489-8494			
	545	Elayadi, A.N. et al., "Application of PNA and LNA oligomers to chemotherapy," Curr. Opin. Investigig. Drugs, 2001, 2(4), 558-561			
	546	Elela, et al., "RNase III Cleaves Eukaryotic Preribosomal RNA at a U3 snoRNP-Dependent Site", Cell, 1996, 85, 115-124			
	547	Elmén, J. et al., "Locked nucleic acid (LNA) mediated improvements in siRNA stability and functionality," Nucleic Acids Res. 2005, 33(1), 439-447			
	548	Englisch, U. And Gauss, D.H., "Chemically Modified Oligonucleotides as Probes and Inhibitors", Angewandt Chemie, International Edition Engl., 1991, 30, 613-629			
	549	EP Supplementary Search Report for EP 03716922 dated May 12, 2006			
	550	Fahy, et al., "Design and synthesis of polyacrylamide-based oligonucleotide supports for use in nucleic acid diagnostics", Nucl. Acids Res., 1993, 21, 1819-1826			

Examiner Signature		Date Considered
--------------------	--	-----------------

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	27	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS		
	551	Faria, M. et al., "Phosphoramidate oligonucleotides as potent antisense molecules in cells and in vivo," Nature Biotech., 2001, 19, 40-44
	552	Fazakerley, G.V., et al., "A→Z transition in the synthetic hexanucleotide (dCdGf)3," FEBS, 1985, 182(2), 365-369
	553	Fedoroff, O.Y. et al., "Structure of a DNA:RNA Hybrid Duplex," J. Mol. Biol., 1993, 233, 509-523
	554	Fire et al., "RNA-triggered gene silencing," TIG (1999) 15(9): 358-363
	555	Fire, A. et al., "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans," Nature, 1998, 391(6669), 806-811
	556	Firestone, R. A., "Low-Density Lipoprotein as a Vehicle for Targeting Antitumor Compounds to Cancer Cells," Bioconjugate Chern. (1994) 105-113.
	557	Fishel, et al., "Z-DNA Affinity Chromatography", Methods Enzymol., 1990, 184, 328-342
	558	Flanagan, W. M. et al., "A cytosine analog that confers enhanced potency to antisense oligonucleotides," Proc. Natl. Acad. Sci. USA, Mar. 1999, 96, 3513-3518
	559	Flanagan, W.M. et al., "Cellular penetration and antisense activity by a phenoxazine-substituted heptanucleotide," Nature Biotechnol. (1999) 17(1): 48-52
	560	Fluiter, K. et al., "In vivo tumor growth inhibition and biodistribution studies of locked nucleic acids (LNA) antisense oligonucleotides," Nucleic Acids Res., 2003, 31(3), 953-962
	561	Fodor, et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", Science, 1991, 251, 767-773
	562	Fox, et al., "Nucleosides. XVIII. Synthesis of 2'-Fluorothymidine, 2'-Flurodeoxyuridine, and Other 2'-Halogeno-2'-Deoxy Nucleosides 12", J Org. Chem., 1964, 29, 558-564
	563	Francis, A.W. et al., "Probing the Requirements for Recognition and Catalysis in Fpg and MutY with Nonpolar Adenine Isosteres," J. Am. Chem. Soc. (2003) 125(52): 16235-16242
	564	Fraser, A.G. et al., "Functional genomic analysis of C. elegans chromosome 1 by systemic RNA interference," Nature, 2000, 408, 325-330
	565	Freier, S. M. et al., "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes," Nucleic Acids Research, 1997, 25(22), 4429-4443
	566	Freskos, "Synthesis of 2'Deoxyguanosine Nucleosides Via Copper (I) Iodine Catalysis," Nucleosides & Nucleotides, 1989, 8, 1075, 1076

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

<p>Substitute for 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
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				Art Unit	1635
Examiner Name	Jane J. Zara				
Sheet	28	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	567	Frieden, M. et al., 'Expanding the design horizon of antisense oligonucleotides with alpha-L-LNA," Nucleic Acids Res., 2003, 31(21), 6365-6372			
	568	Fromageot, H.P.M. et al., "The Synthesis of Oligonucleotides," Tetrahedron, 1967, 23, 2315-2331			
	569	Fuchs, B. et al., "Identification of Differentially Expressed Genes by Mutually Subtracted RNA Fingerprinting," Anal. Biochem., 2000, 286, 91-98			
	570	Fusi, et al., "Ribonucleases from the extreme thermophilic archaebacterium S. Solfataricus", Eur. J. Biochem., 1993, 16, 305-310			
	571	Gabrielsen, et al., AMagnetic DNA affinity purification of yeast transcription factor t-a new purification principle for the ultrarapid isolation of near homogeneous factor", Nucleic Acids Research, 1989, 17, 6253-6267			
	572	Gaffney, et al., "A New Strategy for the Protection of eoxyguanosine During Oligonucleotide Synthesis," Tetrahedron Letters, 1982, 23, 2257-2260			
	573	Gait, M.J. et al., "Application of chemically synthesized RNA," RNA: Protein Interactions (1998) Smith (ed.), pp. 1-36			
	574	Gait, M.J., "Oligoribonucleotides, Antisense Research and Applications, 1993, Crooke, S.T. and Lebleu, B. (eds.), CRC Press, Boca Raton, pp. 289-301			
	575	Gallo, M. et al., "2'-C-Methyluridine phosphoramidite: a new building block for the preparation of RNA analogues carrying the 2'-hydroxyl group," Tetrahedron, 2001, 57(27), 5707-5713			
	576	Gao, J. et al., "Expanded-Size Bases in Naturally Sized DNA: Evaluation of Steric Effects in Watson-Crick Pairing," J. Am. Chem. Soc. (2004) 126(38): 11826-11831			
	577	Gbenle, "Simultaneous Isolation of Cytoplasmic Endoribonuclease and Exoribonuclease of Trypanosoma Brucei", Mol. Biochem. Parasitol., 1985, 15, 37-47			
	578	Gbenle, "Trypanosoma brucei: Calcium-Dependent Endoribonuclease is Associated with Inhibitor Protein", Exp. Parasitol., 1990, 71, 432-438			
	579	Geary, R.S. et al., "Pharmacokinetic Properties of 2'-O-(2-Methoxyethyl)-Modified Oligonucleotide Analogs in Rats," J. Pharmacol. Exp. Therap., 1998, 296(3), 890-897			
	580	Gerdes, K., et al., "Mechanism of Killer Gene Activation. Antisense RNA-dependent RNase III Cleavage Ensures Rapid Turn-over of the Stable-Hok, SrnB and PndA Effector Messenger RNAs", J. Mol. Biol., 1992, 226, 637-649			
	581	Gingeras, et al., "Hybridization properties of immobilized nucleic acids", Nucl. Acids Res., 1987, 15, 5373-5391			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	29	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	582	Going, J.J., et al., "Molecular pathology and future developments," Eur. J. Cancer, 1999, 35(14), 1895-1904			
	583	Goldkorn, T. And Prockop, D.J., "A simple and efficient enzymatic method for covalent attachment of DNA to cellulose. Application for hybridization-restriction analysis and for in vitro synthesis of DNA probes", Nucleic Acids Res., 1986, 14, 9171-9191			
	584	Gonzalez, C. et al., "Structure and Dynamics of a DNA-RNA Hybrid Duplex with a Chiral Phosphorothioate Moiety: NMR and Molecular Dynamics with Conventional and Time-Averaged Restraints," Biochemistry, 1995, 34, 4969-4982			
	585	Goodchild, et al., "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of their Synthesis and Properties", Bioconjugate Chem., 1990, 1(3), 165-187			
	586	Gorlach, M. et al., "The rRNA Poly(A)-Binding Protein: Localization, Abundance, and RNABinding Specificity," Exp. Cells Res. (1994) 211:400-407			
	587	Goss, T.A. and Bard, M., "High-performance affinity chromatography of DNA", J. Chromatogr., 1990, 508, 279-287			
	588	Graham, et al., "Tritium Labeling of Antisense Oligonucleotides by Exchange with Tritiated Water," Nucleic Acids. Res., 1993, 16, 3737-3743			
	589	Graham, M.J. et al., "In Vivo Distribution and Metabolism of a Phosphorothioate Oligonucleotide within Rat Liver after Intravenous Administration," J. Pharmacol. Exp. Therap., 1998, 286(1), 447-458			
	590	Gravert, D.J., et al., "Organic synthesis on soluble polymer supports," Chem. Rev., 1997, 97, 489-509			
	591	Griffey, R.H. et al., "2'-O-Aminopropyl Ribonucleotides: A Zwitterionic Modification that Enhances the Exonuclease Resistance and Biological Activity of Antisense Oligonucleotides," J. Med. Chem., 1996, 39(26), 5100-5109			
	592	Griffin, B.E. et al., "The Synthesis of Oligoribonucleotides," Tetrahedron, 1967, 23, 2301-2313			
	593	Grishok, A. et al., "Genetic Requirements for Inheritance of RNAi in C. elegans," Science, 2000, 287, 2494-2497			
	594	Grünweller, A. et al., "Comparison of different antisense strategies in mammalian cells using locked nucleic acids, 2'-O-methyl RNA, phosphorothioates and small interfering RNA," Nucleic Acids Research, 2003, 31(12), 3185-3193			
	595	Gryaznov, S. et al., "Oligodeoxynucleotide N3'P5' Phosphoramidates: Synthesis and Hybridization Properties," J. Am. Chem. Soc., 1994, 116(7), 3143-3144			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				First Named Inventor	Charles Allerson
				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	30	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	596	Guckian, K.M. et al., "Structure and Base Pairing Properties of a Replicable Nonpolar Isostere for Deoxyadenosine," <i>J Org Chem</i> (1998) 63(26):9652-9656			
	597	Guillerm, D. et al., "Synthesis of 4'-fluoroadenosine as an inhibitor of S-adenosyl-L-homocysteine hydrolase," <i>Bioorganic & Medicinal Chemistry Letters</i> , 1995, 5(14), 1455-1460			
	598	Guo, et al., "Direct fluorescence analysis of genetic polymorphisms by hybridization with oligonucleotide arrays on glass supports", <i>Nucl. Acids Res.</i> , 1994, 22, 5456-5465			
	599	Guo, S. et al., "par-1, a Gene Required for Establishing Polarity in <i>C. elegans</i> Embryos, Encodes a Putative Ser/Thr Kinase That is Asymmetrically Distributed," <i>Cell</i> , 1995, 81(4), 611-620			
	600	Gura, T., "A silence that speaks volumes," <i>Nature</i> , 2000, 404, 804-808			
	601	Guschlbauer, et al., "Nucleoside conformation is Determined by the Electronegativity of the Sugar Substituent," <i>Nucleic Acids Res.</i> , 1980, 8, 1421-1433			
	602	Guschlbauer, W. et al., "Poly-2'-deoxy-2'-fluoro-cytidylic acid: enzymatic synthesis, spectroscopic characterization and interaction with poly-inosinic acid," <i>Nucleic Acid Research</i> , 1977, 4(6), 1933-1943			
	603	Guschlbauer, W., et al., "Use of 2'-deoxy-2'-fluoro-nucleosides in the study of polynucleotide conformation: a progress report," <i>Nucleic Acid Research Symposium Series</i> , 1982, 11, 113-116			
	604	Gutierrez, A.J. et al., "Antisense Gene Inhibition by C-5 Substituted Deoxyuridine-Containing Oligodeoxynucleotides," <i>Biochemistry</i> , 1997, 36(4), 743-748			
	605	Guzaev, A. et al., "Conjugation of Oligonucleotides Via an Electrophilic Tether: N-Chloroacetylidoethyl Phosphoramidite Reagent," <i>Bioorg. Med. Chem. Lett.</i> (1998) 8:3671-3676.			
	606	Haeuptle and Dobberstein, "Translation arrest by oligonucleotides complementary to mRNA coding sequences yields polypeptides of predetermined length", <i>Nucleic Acids Res.</i> , 1986, 14, 1427-1448			
	607	Hakimelahi, G.H. et al., "High Yield Selective 3'-Silylation of Ribonucleosides," <i>Tetrahedron Lett.</i> , 1981, 22(52), 5243-5246			
	608	Hall, J. et al., "Efficient sequence-specific cleavage of RNA using novel europium complexes conjugated to oligonucleotides," <i>Chem. Biol.</i> (1994) 1(3):185-190.			
	609	Hamada et al., "Effects on RNA Interference in Gene Expression (RNAi) in Cultured Mammalian Cells of Mismatches and the Introduction of Chemical Modifications at the 3'Ends of siRNAs," <i>Antisense and Nucleic Acid Drug Development</i> (2002) 12:301-309			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	31	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	610	Hamilton et al., "A species of small antisense RNA in posttranscriptional gene silencing in plants," <i>Science</i> (1999) 286 (5441): 950-952			
	611	Hammond et al., "Post-Transcriptional Gene Silencing by Double-Stranded RNA," <i>Nature</i> , 2001, 2, 110-119			
	612	Hansske, et al., "2'and 3'-ketonucleosides and their arabino and XYLO reduction products," <i>Tetrahedron</i> , 1984, 40, 125-135			
	613	Hariton-Gazal, E. et al., "Targeting of Nonkaryophilic Cell-Permeable Peptides into the Nuclei of Intact Cells by Covalently Attached Nuclear Localization Signals," <i>Biochemistry</i> (2002) 41(29):9208-9214.			
	614	Harry O'Kuru, R.E. et al., "A Short, Flexible Route toward 2'-C-Branched Ribonucleosides," <i>J. Org. Chem.</i> , 1997, 62(6), 1754-1759			
	615	Heasman, J., "Morpholino Oligos: Making Sense of Antisense?" <i>Dev. Biol.</i> , 2002, 243, 209-214			
	616	Henderson, B. R. et al., "A Comparison of the Activity, Sequence Specificity, and CRM1-Dependence of Different Nuclear Export Signals," <i>Exp. Cell Res.</i> (2000) 256:213-224.			
	617	Hertel, et al., "Synthesis of 2-deoxy-2,2-difluoro-D-ribose and 2-deoxy-2,2-difluoro-D-ribofuranosyl nucleosides," <i>J. Org. Chem.</i> , 1988, 53, 2406-2409.			
	618	Hill, F. et al., "Polymerase recognition of synthetic oligodeoxyribonucleotides incorporating degenerate pyrimidine and purine bases," <i>Proc. Natl. Acad. Sci. USA</i> , 1998, 95, 4258-4263			
	619	Hobbs, J. et al., "Poly 2'-Deoxy-2'-Aminouridylic Acid," <i>Biochem. Biophys. Res. Commun.</i> , 1972, 46(4), 1509-1515			
	620	Hobbs, J. et al., "Polynucleotides Containing 2'-Amino 2'-deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochem.</i> , 1973, 12, 5138-5145			
	621	Hobbs, J. et al., "Polynucleotides Containing 2'-Chloro-2'-deoxyribose," <i>Biochem.</i> , Eckstein et al., Ed., 1972, 11, 4336-4344			
	622	Hoffman, K., "Imidazole and its Derivatives" in <i>The Chemistry of Heterocyclic Compounds</i> , Weissberger, A., Ed., Interscience Publishers, Inc., New York, 1953, 447			
	623	Hornbeck, P. et al., Enzyme-Linked Immunosorbent Assays (ELIASE)," <i>Curr. Protocols Mol. Biol.</i> , 1991, John Wiley & Sons, pp. 11.2.1-11.2.22			
	624	Hornung, V. et al., "Sequence-specific potent induction of IFN- α by short interfering RNA in plasmacytoid dendritic cells through TLR7," <i>Nature Med.</i> , 2005, 11(3), 263-270			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	32	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	625	Horton, N. C. et al., "The Structure of an RNA/DNA Hybrid: A Substrate of the Ribonuclease Activity of HIV-1 Reverse Transcriptase," <i>J. Mol. Biol.</i> , 1996, 264, 521-533			
	626	Huang, L. et al., "Oligonucleotide conjugates of Eu(III) tetraazamacrocycles with pendent alcohol and amide groups promote sequence-specific RNA cleavage," <i>J Biol Inorg. Chem</i> (2000) 5:85-92.			
	627	Huh, N. et al., "Design, Synthesis, and Evaluation of Mitomycin-Tethered Phosphorothioate Oligodeoxynucleotides," <i>Bioconjugate Chem.</i> (1996) 7:659-669.			
	628	Hunter, "Genetics: a touch of elegance with RNAi," <i>Current Biology, Current Science</i> (1999) 9(12): R440-R442			
	629	Hyrup, B. And Nielsen, P., "Peptide Nucleic Acids (PNA): Synthesis, Properties and Potential Applications", <i>Bioorganic & Med. Chem.</i> , 1996, 4, 5-23			
	630	Ikehara, et al, "Studies of Nucleosides and Nucleotides-LXV' Purine Cyclonucleosides-26 A Versatile Method for the Synthesis of Purine O-Cyclo-Bucleosides. The First Synthesis of 8,2'Anhydro-8-Oxy 9-B-D-Arabinofuranosylguanine," <i>Tetrahedron</i> , 1975, 31, 1369-1372			
	631	Ikehara, et al, "Studies of Nucleosides and Nucleotides-LXXXVII. 1, Purine Cyclonucleosides. XLII. Synthesis of 2'deoxy-2'fluorofunaosine," <i>Chem. And Pharm. Bull.</i> , 1981, 29, 1034-1038.			
	632	Ikehara, et al. "Purine cyclonucleosides. (43). Synthesis and properties of 2'halogen-2'deoxyguanosines 1," <i>Chem and Pharm Bull.</i> , 1981, 29, 3281-3285			
	633	Ikehara, et al., "A Linear Relationship Between Electronegativity of 2'-Substituents and Conformation of Adenine Nucleosides," <i>Tetrahedron Letters</i> , 1979, 42, 4073-4076			
	634	Ikehara, et al., "Improved Synthesis of 2'-fluoro-2'deoxyadenosine and Synthesis and Carbon-13 NMR Spectrum of its 3',5'-cyclic Phosphate Derivative," <i>Nucleosides & Nucleotides</i> , 1983, 2, 373-385			
	635	Ikehara, et al., "Polynucleotides. L. synthesis and properties of poly (2'chloro-2'-deoxyadenylic acid) and poly (2'-bromo-2'-deoxyadenylic acid)", <i>Nucleic Acids Res.</i> , 1978, 4, 4249-4260			
	636	Ikehara, et al., "Polynucleotides. LII. Synthesis and properties of poly (2'-deox-2'-fluoroadenylic acid)," <i>Nucleic Acids Research</i> , 1978, 5, 1877-1887			
	637	Ikehara, et al., "Polynucleotides. LVI. Synthesis and Properties of Poly(2'-deoxy-2'-fluoroinosinic Acid)", <i>Nucleic Acids Res.</i> , 1978, 5, 3315-3324			
	638	Ikehara, et al., "Purine 8-Cyclonucleosides," <i>Accts. Chem Res.</i> , 1969, 2, 47-53			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	33	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	639	Ikehara, et al., "Studies of Nucleosides and Nucleotides-LXXIV1 Purine Cyclonucleosides--34 A New Method for the Synthesis of 2'-substituted 2'-deoxyadenosines," Tetrahedron, 1978, 34, 1133-1138			
	640	Ikehara, et al., "Studies of Nucleosides and Nucleotides-LXXXII. 1 Cyclonucleosides. (39). 2 Synthesis and properties of 2'halogen-2'-deoxyadenosines," Chem. Pharm. Bull., 1978, 26, 2449-2453			
	641	Ikehara, M., " 2'-substituted 2'-deoxypyrimidine nucleotides their conformation and properties," Heterocycles, 1984, 21(1), 75-90			
	642	Imazawa, et al., "Nucleosides and nucleotides. XII.1) Synthesis and properties of 2'-deoxy-2'-mercaptouridine and its derivates", Chem. Pharm. Bull., 1975, 23, 604-610			
	643	Inoue et al., "Sequence dependent hydrolysis of RNA using modified oligonucleotide splints and Rnase H", FEBS Lett., 1987, 215(2), 327-330			
	644	Inoue, et al., "Synthesis and hybridization studies on two complementary nona(2'-O-methyl) ribonucleotides", Nucleic Acid Res., 1987, 15, 6131-6148			
	645	International Search Report dated March 24, 2005 for International Application No. PCT/US03/35088			
	646	International Search Report dated November 18, 2004 for International Application No. PCT/US03/29294			
	647	Jacobson, K.A. et al., "Methanocarba Analogues of Purine Nucleosides as Potent and Selective Adenosine Receptor Agonists," J. Med. Chem., 2000, 43(11), 2196-2203			
	648	Jäger, A. et al., "Oligonucleotide N-alkylphosphoramidates: Synthesis and binding to polynucleotides", Biochemistry 1988, 27, 7237-7246			
	649	Janik, B., et al., "Synthesis and Properties of Poly 2'-Fluoro-2'-Deoxyuridylic Acid," Biochem. Biophys. Res. Comm., 1972, 46(3), 1153-1160			
	650	Jarvi, et al., "Synthesis and biological evaluation of dideoxunucleosides containing a difluoromethylene unit", Nucleosides & Nucleotides, 1989, 8, 1111-1114			
	651	Jaschke, A. et al., "Synthesis and properties of oligodeoxyribonucleotide-polyethyleneg lycol conjugates," Nucleic Acids Res. (1994) 22(22):4810-4817.			
	652	Jayaraman, et al., "Selective Inhibition of Escherichia Coli Protein Synthesis and Growth by Nonionic Oligonucleotides Complementary to the 3' end of 16S rRNA", Proc. Natl. Acad. Sci. USA 1981, 78(3), 1537-1541			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	34	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	653	Jen et al., "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies," Stem Cells, 2000, 18, 307-319			
	654	Jones, et al., "4'-substituted nucleosides. 5. hydroxymethylation of nucleoside 5'-aldehydes", J. Org. Chem., 1979, 44, 1309-1317			
	655	Jones, et al., "Transient protection: Efficient one-flask synthesis of protected deoxynucleosides", J. Am. Chem. Soc., 1982, 104, 1316-1319			
	656	Jones, L.J. et al., "RNA Quantitation by Fluorescence-Based Solution Assay: RiboGreen Reagent Characterization," Anal. Biochem., 1998, 265, 368-374			
	657	Jones, S.S. et al., "Migration of t-Butyldimethylsilyl Protecting Groups," J.C.S. Perkin 1, 1979, 2762-2764			
	658	Jorgensen. R. A. et al., "Chalcone synthase cosuppression phenotypes in petunia flowers: comparison of sense vs. antisense constructs and single-copy vs. complex T-DNA sequences," Plant Mol. Biol., 1996, 31(5), 957-973			
	659	Juby, C. D. et al., "Facile Preparation of 3'0ligonucleotide-Peptide Conjugates," Tetrahedron Letters (1991) 32(7):879-882.			
	660	Jungblut, P.R., et al., "Proteomics in human disease: cancer, heart and infectious diseases," Electrophoresis, 1999, 20, 2100-2110			
	661	Jurecic, R., et al., "Long-distance DD-PCR and cDNA microarrays," Curr. Opin. Microbiol., 2000, 3, 316-321			
	662	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", FEBS Letts., 1990, 259, 327-330			
	663	Kadonaga, J.T. and Tjian, R., "Affinity purification of sequence-specific DNA binding proteins", Proc. Natl. Acad. Sci. USA, 1986, 83, 5889-5893			
	664	Kadonaga, J.T., "Purification of Sequence-Specific Binding Proteins b DNA Affinity Chromatography", Methods in Enzymology, 1991, 208, 10-23			
	665	Kasher, et al., "Rapid Enrichment of HeLa Transcription Factors IIIB and IIIC by Using Affinity Chromatography Based on Avidin-Biotin Interactions", Mol. And Cell. Biol., 1986, 6, 3117-3127			
	666	Kawaguchi, et al., "Purification of DNA-binding transcription factors by their selective adsorption of the affinity atex particles", Nucleic Acids Research, 1989, 17, 6229-6240			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	35	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	667	Kawasaki, et al., "Synthesis and Biophysical Studies of 2'-dRIBO-2'-F Modified Oligonucleotides", Conf. on Nucleic Acid Therapeutics, Clearwater, FL, Jan. 13-16, 1991, 10 pages			
	668	Kawasaki, et al., "Uniformly Modified 2'-Deoxy-2'-fluoro Phosphorothioate Oligonucleotides as Nuclease-Resistant Antisense Compounds with High Affinity and Specificity for RNA Targets", J. Med. Chem., 1993, 36, 831-841			
	669	Kawasaki, H/ et al., "Hesl is a target of MicroRNA-23 during retinoic-acid-induced neuronal differentiation of NT2 cells," Nature (2003) 423: 838-842			
	670	Kennedy, "Hydrophobic Chromatography", Methods in Enzymology, 1990, 182, 339-343			
	671	Khurshid et al., "The unique conformational stability of poly 2'-O-Ethyladenylic Acid," FEBS Letters, 1972, 28(1), 25			
	672	Khvorova, A. et al., "Functional siRNAs Exhibit Strand Bias," Cell, 2003, 115(2), 209-216			
	673	Kiaris, H. et al., "Antagonists of Growth Hormone-Releasing Hormone Inhibit the Growth of U-87MG Human Glioblastoma in Nude mice," Neoplasia, 2000, 2(3), 242-250			
	674	Kielanowska et al., "Preparation and properties of poly 2'-O-ethylcytidylic acid," Nucl. Acids Res., 1976, 3(3), 817-824			
	675	Kimura-Harada, "5-methyl-2-thiouridine: A new sulfur-containing minor constituent from rat liver glutamic acid and lysine tRNAs," FEBS Lett., 1971, 13, 335-338			
	676	Kingston, R.E. et al., "Calcium Phosphate Transfection", Current Protocols in Neuroscience, 1997, Supplement 1, A.1C.1 – A.1C.8			
	677	Klopfner, A.E. et al., "Synthesis of 2'-Aminoalkyl-Substituted Fluorinated Nucleobases and Their Influence on the Kinetic Properties of Hammerhead Ribozymes," ChemBioChem (2004) 5: 707-716			
	678	Klopfner, A.E. et al., "The effect of universal fluorinated nucleobases on the catalytic activity of ribozymes , " Nucleosides Nucleotides Nucleic Acids (2003) 22(5-8): 1347-1350			
	679	Knecht, D., "Application of Antisense RNA to the Study of the Cytoskeleton: Background, Principles, and a Summary of Results Obtained with Myosin Heavy Chain", Cell Motil. Cytoskel., 1989, 14, 92-102			
	680	Knochbin et al., "An antisense RNA involved in p53 mRNA maturation in murine erythroleukemia cells induced to differentiate", EMBO J., 1989, 8, 4107-4114			
	681	Knorre, et al., "Complementary-Addressed Sequence-Specific Modification of Nucleic Acids", Progress in Nucleic Acid Research and Molecular Biology 1985, 32, 291-321			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	36	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	682	Koizumi, M. et al., "Design of RNA enzymes distinguishing a single base mutation in RNA," Nucleic Acids Research, 1989, 17, 7059-7071			
	683	Koole, et al., "Synthesis of phosphate-methylated DNA fragments using 9-fluorenylmethoxycarbonyl as transient base protecting group", J. Org. Chem., 1989, 54, 1657-1664			
	684	Koshkin, A.A., et al., "LNA (locked nucleic acid): an RNA mimic forming exceedingly stable LNA:LNA duplexes," J. Am. Chem. Soc., 1998, 120, 13252-13253			
	685	Koshkin, A.A., et al., "LNA (locked nucleic acids): synthesis of the adenine, cytosine, guanine, 5-methylcytosine, thymine and uracil bicyclonucleoside monomers, oligomerisation, and unprecedented nucleic acid recognition," Tetrahedron, 1998, 54, 3607-3630			
	686	Kraynack, B.A. et al., "Small interfering RNAs containing full 2'-O-methylribonucleotide-modified sense strands display Argonaute2/eIF2C2-dependent activity," RNA, 2006, 12, 163-176			
	687	Krieg, A. M. et al., "Uptake of Oligodeoxyribonucleotides by Lymphoid Cells Is Heterogeneous and Inducible," Antisense Research and Development (1991) 1:161-171.			
	688	Krinke, L. et al., "RNase III-dependent hydrolysis of γ cII-O gene mRNA mediated by γ OOP antisense RNA", Genes & Devel., 1990, 4, 2223-2233			
	689	Kroschwitz, J.I. (Ed.), The Concise Encyclopedia of Polymer Science and Engineering, John Wiley & Sons, 1990, 858-859			
	690	Krug, A., et al., "Synthesis of oligonucleotide probes containing 2'-deoxy-2'-fluoronucleosides for cleavage of RNA by RNase H," Biomed. Biochem. Acta, 1990, 49, 161-166			
	691	Krug, A., et al., "The behaviour of 2'-deoxy-2'-fluorouridine incorporated into oligonucleotides by the phosphoramidite approach," Nucleosides & Nucleotides, 1989, 8(8), 1473-1483			
	692	Krystal et al., "N-myc mRNA Forms an RNA-RNA Duplex with Endogenous Antisense Transcripts", Mol. And Cell. Biol., 1990, 10, 4180-4191			
	693	Kuijpers, W. H. A. et al., "Specific Recognition of Antibody-Oligonucleotide Conjugates by Radiolabeled Antisense Nucleotides: A Novel Approach for Two-Step Radioimmunotherapy of Cancer," Bioconjugate Chem. (1993) 4(1):94-102.			
	694	Kuimelis, "Synthesis of oligodeoxynucleotides containing 2-thiopyrimidine residues--a new protection scheme," Nucleic Acids Res. 1994, 22(8), 1429-1436			
	695	Kumar et al., "Antisense RNA: function and fate of duplex RNA in cells of higher eukaryotes," Microbiology and Molecular Biology Reviews (1998) 62(4): 1415-1434			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	37	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	696	Kumar, R., et al., "The first analogues of LNA (locked nucleic acids): phosphorothioate-LNA and 2'-thio-LNA," <i>Bioorg. Med. Chem. Lett.</i> , 1998, 8, 2219-2222			
	697	Kurchavov, N.A., et al., "A new phosphoramidite reagent for the incorporation of diazaphenoxazinone nucleoside with enhanced base-pairing properties into oligodeoxynucleotides," <i>Nucleosides and Nucleotides</i> , 1997, 16, 1837-1846			
	698	Kurreck, J., "Antisense technologies, Improvement through novel chemical modifications," <i>Eur. J. Biochem.</i> , 2003, 270(8), 1628-1644			
	699	Kusmierek et al., "Alkylation of cytidine-5'-phosphate: Mechanisms of alkylation, influence of O'-alkylation on susceptibility of pyrimidine nucleotides to some nucleolytic enzymes, and synthesis of 2'-O-alkyl polynucleotides," <i>ACTA Biochim. Polonica</i> , 1973, 20(4), 365-381			
	700	Lacerra, G., et al., "Restoration of hemoglobin a synthesis in erythroid cells from peripheral blood of thalassemic patients," <i>Proc. Natl. Acad. Sci. USA</i> , August 15, 2000, 97(17), 9591-9596			
	701	Lai J. S. et al., "Fluorinated DNA Bases as Probes of Electrostatic Effects in DNA Base Stacking," <i>Angew. Chem. Int. Ed.</i> (2003) 42: 5973-5977			
	702	Lai, J. S. et al., "Selective Pairing of Polyfluorinated DNA Bases," <i>J. Am. Chem. Soc.</i> (2004) 126(10): 3040-3041			
	703	Lane, A. N. et al., "NMR Assignments and Solution Conformation of the DNA-RNA Hybrid Duplex d(GTGAACCT)-r(AAGUUCAC)," <i>Eur. J. Biochem.</i> , 1993, 215, 297-306			
	704	Larson, E.J., et al., "Rapid DNA fingerprinting of pathogens by flow cytometry," <i>Cytometry</i> , 2000, 41, 203-208			
	705	Larsson, M., et al., "High-throughput protein expression of cDNA products as a tool in functional genomics," <i>J. Biotechnol.</i> , 2000, 80, 143-157			
	706	Le Doan et al., "Sequence-Targeted Chemical Modifications of Nucleic Acids by Complementary Oligonucleotides Covalently Linked to Porphyrins", <i>Nucleic Acid Research</i> , 1987, 15, 8643-8659			
	707	Lee, R.C. et al., "The <i>C. elegans</i> heterochronic gene lin-4 encodes small RNAs with antisense complementarity to lin-14," <i>Cell</i> , 1993, 75(5), 843-854			
	708	Lee, K. et al., "Ring-Constrained (N)-Methanocarba Nucleosides as Adenosine Receptor Agonists: Independent 5'-Uronamide and 2'-Deoxy Modifications," <i>Bioorganic & Medicinal Chemistry Letters</i> , 2001, 11(10), 1333-1337			
	709	Lee, Y. et al., "MicroRNA maturation: stepwise processing and subcellular localization," <i>EMBO J.</i> (2002) 21(17): 4663-4670			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	38	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	710	Lee, Y. et al., "The nuclearRNase III Drosha initiates microRNA processing," Nature (2003) 425: 415-419			
	711	Leeds, J.M. et al., "Pharmacokinetic Properties of Phosphorothioate Oligonucleotides," Nucleosides Nucleotides, 1997, 16(7-9), 1689-1693			
	712	Lengyel, P., "Double-stranded RNA and interferon action," J. Interferon Res., 1987, 7, 511-519			
	713	Lesnik, E.A. et al., "Relative thermodynamic stability of DNA, RNA, and DNA:RNA hybrid duplexes: relationship with base composition and structure," Biochemistry, 1995, 34, 10807-10815			
	714	Letsinger et al., "Effects of Pendant Groups at Phosphorus on Binding Properties of D-ApA Analogues", Nucleic Acids Research, 1986, 14, 3487-3499			
	715	Letsinger, R.L. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture," Proc. Natl. Acad. Sci., 1989, 86, 6553-6556			
	716	Lewis, D.L. et al., "Efficient delivery of siRNA for inhibition of gene expression in postnatal mice," Nature Genetics, 2002, 32, 107-108			
	717	Li, S. et al., "Folate-Mediated Targeting of Antisense Oligodeoxynucleotides to Ovarian Cancer Cells," Pharm. Res. (1998) 15(10):1540-1545.			
	718	Liao, "A pyrimidine-guanine sequence-specific ribonuclease from Rana catesbeiana (bullfrog) oocytes", Nucl. Acids Res., 1992, 20, 1371-1377			
	719	Lima, W. F. et al., "Highly efficient endonucleolytic cleavage of RNA by a CyszHisz zinc-finger peptide," Proc. Natl. Acad. Sci. USA (1999) 96:10010-10015.			
	720	Lima, W.F. et al., "Binding affinity and specificity of Escherichia coli RNase H1: impact on the kinetics of catalysis of antisense oligonucleotide-RNA hybrids," Biochemistry, Vol. 36, pages 390-398 (1997)			
	721	Limbach, P.A. et al., "Summary: the modified nucleosides of RNA," Nucleic Acids Res., 1994, 22(12), 2183-2196			
	722	Lin, K.-Y. et al., "A Cytosine Analogue Capable of Clamp-Like Binding to a Guanine in Helical Nucleic Acids," J. Am. Chem. Soc., 1998, 120(33), 8531-8532			
	723	Lin, K.-Y. et al., "Tricyclic 2'-Deoxycytidine Analogs: Synthesis and Incorporation into Oligodeoxynucleotides Which Have Enhanced Binding to Complementary RNA," J. Am. Chem. Soc., 1995, 117, 3873-3874			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
				First Named Inventor	Charles Allerson
				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	39	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	724	Lin, M. et al., "Inhibition of collagenase type I expression by psoralen antisense oligonucleotides in dermal fibroblasts," Faseb J. 1995, 9, 1371-1377			
	725	Liu, H. et al."A Four Base Paired Genetic Helix with Expanded Size," Science (2003) 302; 868-871			
	726	Liu, H. et al., "Toward a New Genetic System with Expanded Dimensions: Size-Expanded Analogues of Deoxyadenosine and Thymidine," J. Am Chem Soc. (2004) 126(4) 1102-1109			
	727	Liu, K. et al., "Efficient Nuclear Delivery of Antisense Oligodeoxynucleotides and Selective Inhibition of CETP Expression by Apo E Peptide in a Human CETP-Stably Transfected CHO Cell Line," Arterioscler. Thromb. Vasc. Biol. (1999) 19:2207-2213.			
	728	Lixin, R. et al., "Novel Properties of the Nucleolar Targeting Signal of Human Angiogenin," Biochem. Biophys. Res. Comm. (2001) 284:185-193.			
	729	Loakes, D. et al., "The applications of universal DNA base analogues," Nucleic Acids Res., 2001, 29(12), 2437-2447			
	730	Lohrmann et al., "New Solid Supports for DNA Synthesis", DNA, 1984, 3, 122			
	731	Lukhtanov, E. A. et al., "Direct, Solid Phase Assembly of Dihydropyrroloindole Peptides with Conjugated Oligonucleotides," Bioconjugate Chem. (1996) 7(5):564-567.			
	732	Lund et al., "Assessment of methods for covalent binding of nucleic acids to magnetic beads, Dynabeads™, and the characteristics of the bound nucleic acids in hybridization reactions", Nucl. Acids Res., 1988, 16, 10861-10880			
	733	Madden, S.L., et al., "Serial analysis of gene expression: from gene discovery to target identification," Drug Discov. Today, September 2000, 5(9), 415-425			
	734	Mahato et al., "Modulation of gene expression by antisense and antogene oligodeoxynucleotides and small interfering RNA," Expert Opinion on Drug Delivery, Jan. 2005, 2(1), 3-28			
	735	Manche et al., "Interactions between double-stranded RNA regulators and the protein kinase DAI," Mol. Cell Biol., 1992, 12(11), 5238-5248			
	736	Maniak, M. et al., "Evidence for a feedback regulated back-up promoter which controls permanent expression of a Dictyostelium gene", Nucl. Acids Res., 1990, 18, 5375-5380			
	737	Manoharan M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", Bioorganic Med. Chem. Letts., 1994, 4, 1053-1060			
	738	Manoharan M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", Nucleosides and Nucleotides, 1995, 14, 969-973			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
				First Named Inventor	Charles Allerson
				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	40	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	739	Manoharan, M. et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides", Annals NY Acad. Sciences, 1992, 660, 306-309			
	740	Manoharan, M. et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications," Bioorg. Med. Chem. Letts., 1993, 3, 2765-2770			
	741	Manoharan, M. et al., "Novel Functionalization of the Sugar Moiety of Nucleic Acids for Multiple Labeling in the Minor Groove," Tetrahedron Letters (1991) 32(49):7171-7174.			
	742	Manoharan, M. et al., "Lipidic Nucleic Acids", Tetrahedron Letts., 1995, 36, 3651-3654			
	743	Manoharan, M., "2'-Carbohydrate modifications in antisense oligonucleotide therapy: importance of conformation, configuration and conjugation," Biochimica et Biophysica Acta, 1999, 1489, 117-130			
	744	Manoharan, M., "Designer Antisense Oligonucleotides: Conjugation Chemistry and Functionality Placement," Antisense Research and Applications, Crooke and Lebleu, eds., CRC Press Boca Raton. FL, 1993, Chapter 17, 303-349.			
	745	Manoharan, M., "Oligonucleotide Conjugates as Potential Antisense Drugs with Improved Uptake, Biodistribution, Targeted Delivery and Mechanism of Action," Antisense & Nucleic Acid Drug Development (2002) 12:103-128.			
	746	Manoharan, M., "Oligonucleotide Conjugates in Antisense Technology," Antisense Drug Technology, Principles, Strategies, and Applications, Crooke, S. T. ed., Marcel Dekker, New York, (2001) Chapter 16, 391-467.			
	747	Manoharan, M., "RNA interference and chemically modified small interfering RNAs," Current Opinion in Chemical Biology, 2004, 8, 570-579			
	748	Marcus-Sekura, "Comparative inhibition of chloramphenicol acetyltransferase gene expression by antisense oligonucleotide analogues having alkyl phosphotriester, methylphosphonate and phosphorothioate linkages", Nucleic Acids Res., 1987, 15, 5749-5763			
	749	Marcus-Sekura, "Techniques for Using Antisense Oligodeoxyribonucleotides to Study Gene Expression", Anal. Biochemistry, 1988, 172, 289-295			
	750	Markiewicz, et al., "Simultaneous Protection of 3'- and 5'-Hydroxyl Groups of Nucleosides", Nucleic Acid Chemistry, Part 3, pgs. 229-231, L.B. Townsend, et al., Eds., J. Wiley and Sons, New York, 1986, 229-231			
	751	Maruenda, H. et al., "Antisense Sequence-Directed Cross-Linking of DNA Oligonucleotides by Mitomycin C," Bioconjugate Chem. (1996) 7(5):541-544.			
	752	Maruenda, H. et al., "Antisense sequence-directed cross-linking of RNA oligonucleotides by mitomycin," Anti-Cancer Drug. Des. (1997) 12, 473-479			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	41	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	753	Marwick, C., "First "Antisense" Drug Will Treat CMV Retinitis," J. Am. Med. Assoc., 1998, 280(10), 871			
	754	Maskos, U. And Southern, E.M., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised in situ", Nucl. Acids. Res., 1992, 20, 1679-1684			
	755	Matson, et al., "Biopolymer Synthesis on Polypropylene Supports", Anal. Biochem., 1994, 217, 306-310			
	756	Matsukura, M. et al., "Phosphorothioate Analogs of Oligodeoxynucleotides: Inhibitors of Replication and Cytopathic Effects of Human Immunodeficiency Virus", Proc. Natl. Acad. Sci. USA, 1987, 84, 7706-7710			
	757	Matteucci, M.D. et al., "Synthesis of Deoxyoligonucleotides on a Polymer Support," J. Am. Chem. Soc., 1981, 103(11), 3185-3191			
	758	McBride, L.J. and Caruthers, M.H., "An Investigation of Several Deoxynucleoside Phosphoramidites Useful for Synthesizing Deoxyoligonucleotides", Tetrahedron Letters, 1983, 24, 245-248			
	759	McCafferey, A.P. et al., "RNA interference in adult mice," Nature, 2002, 418, 38-39			
	760	McIntyre, K.W. et al., "A Sense Phosphorothioate Oligonucleotide Directed to the Initiation Codon of Transcription Factor NF- κ B p65 Causes Sequence-Specific Immune Stimulation," Antisense Res. Dev., 1993, 3, 309-322			
	761	McQueen, C.A. et al., "Effect of Nalidixic Acid on DNA Repair in Rat Hepatocytes," Cell Biol. Toxicol., 1989, 5(2), 201-206			
	762	Meegan, J.M. et al., "Double-Stranded Ribonuclease Coinduced with Interferon", Science, 1989, 244, 1089-1091			
	763	Metelev, et al., Bioorg. & Med. Chem. Lett., 1994, 4(24), 2929-2934			
	764	Meunier, L. et al., "The nuclear export signal-dependent localization of oligonucleopeptides enhances the inhibition of the protein expression from a gene transcribed in cytosol," Nucleic Acids Res. 1999, 27(13):2730-2736			
	765	Meyer, et al., "Efficient, Specific Cross-Linking and Cleavage of DNA by Stable, Synthetic Complementary Oligodeoxynucleotides", J. Am. Chem. Soc. 1989, 111, 8517-8519			
	766	Mili, S. et al., "Distinct RNP Complexes of Shuttling hnRNP Proteins with Pre-mRNA and rRNA. Candidate Intermediates in Formation and Export of mRNA," Mol. Cell Biol. (2001) 21(21):7307-7319.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	42	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS

	767	Miller, et al., "A New Approach to Chemotherapy Based on Molecular Biology and Nucleic Acid Chemistry: Matagen (Masking Tape for Gene Expression", Anti-Cancer Drug Design, 1987, 2, 117-128	
	768	Miller, et al., "Biochemical and Biological Effects of Nonionic Nucleic Acid Methylphosphonates", Biochemistry 1981, 20, 1874-1880	
	769	Miller, et al., "Nonionic nucleic acid analogues. Synthesis and characterization of dideoxyribonucleoside methylphosphonates", Biochemistry 1979, 18, 5134-5143	
	770	Miller, et al., "Synthesis and properties of adenine and thymine nucleoside alkyl phosphotriesters, the neutral analogs of dinucleoside monophosphates", J. Am. Chem. Soc. 1971, 93, 6657-6664	
	771	Milligan, "Current concepts in antisense drug design," J. Med. Chem., 1993, 36, 1923-1937	
	772	Min, K. -L. et al., "Oligonucleotides comprised of alternating 2' -deoxy-2' -fluoro-beta-D-arabinonucleosides and D-2' -deoxyribonucleosides (2'F-ANA/DNA 'Altimers') induce efficient RNA cleavage mediated by RNase H," Bioorganic & Medicinal Chemistry Letters, September 2002, 12, 2651-2654	
	773	Mishra et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery", Biochim. Biophys. Acta, 1995, 1264, 229-237	
	774	Miura et al., "Fluorometric determination of total mRNA with oligo(dT) immobilized on microtiter plates", Clin. Chem., 1996, 42(11), 1758-1764	
	775	Monia, et al., "Antitumor activity of a phosphorothioate antisense oligodeoxynucleotide targeted against c-raf kinase", Nature Medicine, 1996, 2, 668-675	
	776	Monia, et al., "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression", J. Biol. Chem., 1993, 268, 14514-14522	
	777	Monia, et al., "Selective Inhibition of Mutant Ha-ras mRNA Expression by Antisense Oligonucleotides", J. Biol. Chem., 1992, 267, 19954-19962	
	778	Montgomery, M.K. et al., "RNA as a target of double-stranded RNA-mediated genetic interference in <i>Caenorhabditis elegans</i> ," Proc. Natl. Acad. Sci. USA, 1998, 95(26), 15502-15507	
	779	Moran, S. et al., "A thymidine triphosphate shape analog lacking watson-crick pairing ability is replicated with high sequence selectivity," Proc. Natl. Acad. Sci. USA (1997) 94, 10506-10511	
	780	Moran, S. et al., "Difluorotoluene, a Nonpolar Isostere for Thymine, Codes Specifically and Efficiently for Adenine in DNA Replication," J Am Chem Soc. (1997) 119(8), 2056-2057	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	43	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	781	Morita, K. et al., "2'-O,4'-C-Ethylene-Bridged Nucleic Acids (ENA): Highly Nuclease-Resistant and Thermodynamically Stable Oligonucleotides for Antisense Drug," Bioorganic & Medicinal Chemistry Letters, 2002, 12(1), 73-76			
	782	Morita, K. et al., "Synthesis and Properties of 2'-O,4'-C-Ethylene-Bridged Nucleic Acids (ENA) as Effective Antisense Oligonucleotides," Bioorg. Med. Chem., 2003, 11, 2211-2226			
	783	Moulds, C. et al., "Site and Mechanism of Antisense Inhibition by C-5 Propyne Oligonucleotides," Biochemistry, 1995, 34(15), 5044-5053			
	784	Napoli, C. et al., "Introduction of a Chimeric Chalcone Synthase Gene into Petunia Results in Reversible Co-Suppression of Homologous Genes in trans," Plant Cell, 1990, 2(4), 279-289			
	785	Narhi, et al., "Hydrophobic Interaction Chromatography in Alkaline pH", Anal. Biochem., 1989, 182, 266-270			
	786	Nasevicius, A. et al., "Effective targeted gene 'knockdown' in zebrafish," Nature Genetics, 2000, 26, 216-220			
	787	Nellen, W., C., "What makes an mRNA anti-sense-itive?", Curr. Opin. Cell. Biol., 1993, 18, 419-424			
	788	Nellen, W., et al., "Mechanisms of gene regulation by endogenous and artificially introduced antisense RNA", Biochem., Soc. Trans., 1992, 20, 750-754			
	789	NELSON, P. S. et al., "Bifunctional oligonucleotide probes synthesized using a novel CPG support are able to detect single base pair mutations," Nucleic Acids Res. (1989) 17(18):7187-7194			
	790	Nestle, F.O. et al., "Cationic Lipid is not Required for Uptake and Selective Inhibitory Activity of ICAM-1 Phosphorothioate Antisense Oligonucleotides in Keratinocytes," J. Invest. Dermatol., 1994, 103, 569-575			
	791	Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", Science, 1991, 254, 1497-1500			
	792	Nishikura, K. et al., "A Short Primer on RNAi: RNA-Directed RNA Polymerase Acts as a Key Catalyst," Cell, 2001, 107(4), 415-418			
	793	Nitta, et al., "Purification and Some Properties of Ribonuclease from Xenopus laevis Eggs", Biol. Pharm. Bull. (Jpn.), 1993, 16, 353-356			
	794	Noguchi, et al., "Characterization of an Antisense Inr Element in the eIF-2α Gene", J. Biol. Chem., 1994, 269, 29161-29167			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	44	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	795	Noyes, et al., "Nucleic Acid Hybridization Using DNA Covalently Coupled to Cellulose", Cell, 1975, 5, 301-310			
	796	Nykänen, A. et al, "ATP Requirements and Small Interfering RNA Structure in the RNA Interference Pathway," Cell, 2001, 107, 309-321			
	797	Oberhauser et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", Nucl. Acids Res., 1992, 20(3), 533-538			
	798	Ogilvie, K.K. et al., "The Use of Silyl Groups in Protecting the Hydroxyl Functions of Ribonucleosides," Tetrahedron Letters, 1974, 15(33), 2861-2863			
	799	Ohtsuka et al., "Recognition By Restriction Endonuclease EcoRI of Deoxyoctanucleotides containing modified sugar moieties," Eur. J. Biochem., Mar. 1984, 447-450			
	800	Ohtsuki, et al., "Isolation and purification of double-stranded ribonuclease from calf thymus", J. Biol. Chem., 1977, 252, 483-491			
	801	Olie, R.A. et al., "Analysis of ribosyl-modified, mixed backbone analogs of a bcl-2/bcl-xL antisense oligonucleotide," Biochimica et Biophysica Acta, 1576 (2002), 101-109			
	802	Olsen, D.B., et al., "Study of a Hammerhead Ribozyme Containing 2'-Modified Adenosine Residues," Biochemistry, 1991, 30:, 9735-9741			
	803	O'Neill, B.M. et al., "A Highly Effective Nonpolar Isostere of Deoxyguanosine: Synthesis, Structure, Stacking, and Base Pairing," J. Org. Chem. (2002) 67(17):5869-5875			
	804	Ørum, H. et al., "Locked nucleic acids: A promising molecular family for gene-function analysis and antisense drug development," Curr. Opin. Mol. Therap., 2001, 3(3), 239-243			
	805	Outten, et al., "Synthetic 1-methoxybenzo[d]naphtho[1,2-b]pyran-6-one c-glycosides", J. Org. Chem. 1987, 52, 5064-5066			
	806	Owen, et al., "Transcriptional activation of a conserved sequence element by ras requires a nuclear factor distinct from c-fos or c-jun", Proc. Natl. Acad. Sci USA, 1990, 87, 3866-3870			
	807	Owen, G.R. et al., "4'-Substituted Nucleosides. 3. Synthesis of Some 4'-Fluorouridine Derivatives," J. Org. Chem., 1976, 41(18), 3010-3017			
	808	Parker, J.S. et al., "Structure insights into mRNA recognition from a PIWI domain-siRNA guide complex," Nature, 2005, 434, 663-666			
	809	Parkes, et al., "A short synthesis of 3'-cyano-3'-Deoxythymidine", Tetra. Lett., 1988, 29, 2995-2996			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	45	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	810	Parr, W. et al., "Solid-Phase Peptide Synthesis on an Inorganic Matrix having Organic Groups on the Surface," Angew Chem. Internat. Edit, 1972, 11 (4), 314-315			
	811	Patzel et al., "A Theoretical Approach to Select Effective Antisense Oligodeoxyribonucleotides at High Statistical Probability," Nucleic Acids Research (1999) pp. 4328-4334.			
	812	Pease, et al., "Light-generated oligonucleotide arrays for rapid DNA sequence analysis", Proc. Natl. Acad. Sci. USA, 1994, 91, 5022-5026			
	813	Petersen, M. et al., "The conformations of locked nucleic acids (LNA)," J. Mol. Recognit., 2000, 13, 44-53			
	814	Petersheim, et al., "Base-Stacking and Base-Pairing contributions to helix stability: thermodynamics of double-helix formation with CCGG, CCGGp, CCGGAp, ACCGGp, CCGGUp, and ACCGGUp", Biochemistry, 1983, 22, 256-263			
	815	Pichon, C. et al., "Intracellular Routing and Inhibitory Activity of Oligonucleopeptides Containing a KDEL Motif," Mol. Pharmacol. (1997) 51:431-438.			
	816	Pieken, W.A. et al., "Kinetic Characterization of Ribonuclease-Resistant 2'-Modified Hammerhead Ribozymes," Science, 1991, 253, 314-317			
	817	Pieken, W.A., et al., "Structure-Function Relationship of Hammerhead Ribozymes as Probed by 2'-Modifications," Nucleic Acids Symp Ser., 1991, 24, 51-53			
	818	Pike et al., "Mixed Alkylation (Methylation and Ethylation) of Adenosine by Diazoethane in Aqueous 1,2-Dimethoxyethane," J. Org. Chem., 1974, 39(25), 3674-3676			
	819	Pilet, J. et al., "Structural parameters of single and double helical polyribonucleotides," Biochem Biophys Res Commun, 1973, 52(2), 517-523			
	820	Pitts, A.E. et al., "Inhibition of human telomerase by 2'-O-methyl-RNA," Proc. Natl. Acad. Sci. USA, 1998, 95, 11549-11554			
	821	Pon, et al., "Derivatization of Controlled Pore Glass Beads for Solid Phase Oligonucleotide Synthesis", BioTech., 1988, 6, 768-773			
	822	Pooleiko, N.E. et al., "Xylo-configured Oligonucleotides (XNA, Xylo Nucleic Acid): Synthesis of Conformationally Restricted Derivatives and Hybridization Towards DNA and RNA Complements," Biorganic & Medicinal Chemistry Letters 2003, vol. 13, pages 2285-2290			
	823	Porta, H. et al., "An allosteric hammerhead ribozyme," Biotechnology (N.Y.), 1995, 13(2), 161-164			
	824	Prakash, T. P. et al., Abstract of The 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
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				Examiner Name	Jane J. Zara
Sheet	46	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	825	Prakash, T. P. et al., "Synthesis of Site-Specific Oligonucleotide-Polyamine Conjugates," Bioorg. Med. Chem. Lett. (1994) 4(14):1733-1738.			
	826	Prashar, Y., et al., "A method for display of 3'-end fragments of restriction enzyme-digested cDNAs for analysis of differential gene expression," Methods Enzymol., 1999, 303, 258-272			
	827	Prokipcak, et al., "Purification and Properties of a Protein that Binds to the C-terminal Coding Region of Human c-myc mRNA", J. Biol. Chem., 1994, 269, 9261-9269			
	828	Puglisi, et al., "Absorbance melting curves of RNA", Methods in Enzymology, 1989, 180, 304-325			
	829	Rajur, S. B. et al., "Covalent Protein-Oligonucleotide Conjugates for Efficient Delivery of Antisense Molecules," Bioconjugate Chem. (1997) 8(6):935-940.			
	830	Rajwanshi, V.K., et al., "LNA stereoisomers: xylo-LNA (β -D-xylo configured locked nucleic acid) and α -L-ribo configured locked nucleic acid)," Chem. Commun., 1999, 1395-1396			
	831	Ranganathan, "Modification of the 21-Position of Purine Nucleosides: Synthesis of 21-a-Substituted-21-Deoxyadenosine Analogs", Tetrahedron Letters, 1977, 15, 1291-1294			
	832	Ransford et al., "2'-O-Ethyl Pyrimidine Nucleosides," J. Carbohydrates - Nucleosides - Nucleotides, 1974, 1(3), 275-278			
	833	Rao, et al., "A Novel One-step Procedure for the Conversion of Thymidine into 2,3'-Anhydrothymidine", J. Chem. Soc. Chem. Commun., 1989, 997-998			
	834	Rausch, J.W. et al., "Hydrolysis of RNA/DNA hybrids containing nonpolar pyrimidine isosteres defines regions essential for HIV type 1 polypurine tract selection," PNAS (2003) 100(20): 11279-11284			
	835	Reddy, M.P. et al., "Fast Cleavage and Deprotection of Oligonucleotides," Tetrahedron Letters, 1994, 35(25), 4311-4314			
	836	Reese, C.B. et al., "An Acetal Group Suitable for the Protection of 2'hydroxy Functions in Rapid Oligoribonucleotide Synthesis," Tetrahedron Letters, 1986, 27(20), 2291-2294			
	837	Reese, C.B., et al., "4-(1,2,4-Triazol-1-yl)-and 4-(3-Nitro-1,2,4-triazol-1-yl)-1-(β -D-Arabinofuranosyl)cytosine(Ara-C)", J. Chem. Soc. Perkin Trans. I, 1982, pgs. 1171-1176			
	838	Renneberg, D. et al. "Antisense properties of tricyclo-DNA," Nucleic Acids Res., 2002, 30(13), 2751-2757			
	839	Renneberg, D., et al., "Watson—Crick base-pairing properties of tricycle-DNA," J. Am. Chem. Soc., 2002, 124, 5993-6002			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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NON PATENT LITERATURE DOCUMENTS					
840	Revankar et al., "Synthesis and Antiviral/Antitumor of Certain 3-Seazaguanine Nucleosides and Nucleotides", J. Med. Chem. 1984, 24, 1389-1396				
841	Rhodes, J. et al., "Therapeutic potentiation of the immune system by costimulatory Schiff-baseforming drugs," Nature (1995) 377(6544):71-75.				
842	Robins, et al., "Nucleic acid related compounds. 41. Restricted furanose conformations of 3',5'-O(1,1,3,3-tetraisopropyldisilox-1,3-diy)nucleosides provide a convenient evaluation of anomeric configuration1,2", Can. J. Chem., 1983, 61, 1911-1920				
843	Robins, et al., "Nucleic Acid Related Compounds. 42. A General Procedure for the Efficient Deoxygenation of Secondary Alcohols. Regiospecific and Stereoselective Conversion of Ribonucleosides to 2'-Deoxynucleosides", J. Am. Chem. Soc., 1983, 105, 4059-4065				
844	Robins, et al., "Synthesis of 2'-Deoxytubercidin, 2'-Deoxyadenosine, and Related 2'-Deoxynucleosides via a Novel Direct Stereospecific Sodium Salt Glycosylation Procedure", J. Am. Chem. Soc., 1984, 106, 6379-6382				
845	Roelen et al., "Synthesis of Nucleic Acid Methylphosphonothioates", Nucleic Acids Research 1988, 16(15), 7633-7645				
846	Rottman et al., "Influence of 2'-O-Alkylation on the Structure of Single-Stranded Polynucleotides and the Stability of 2'-O-Alkylated Polynucleotide Complexes," Biochem., 1974, 13, 2762-2771				
847	Rottman, F. et al., "Polymers Containing 2'-O-Methylnucleotides. II. Synthesis of Heteropolymers," Biochem, 1969, 8(11), 4354-4361				
848	Rottman, F. et al., "Polynucleotides Containing 2'-O-Methyladenosine. I. Synthesis by Polynucleotide Phosphorylase," Biochem, 1968, 7, 2634-2641				
849	Ruby, et al., "An Early Hierarchic Role of U1 Small Nuclear Ribonucleoprotein in Splicesome Assembly", Science, 1988, 242, 1028-1035				
850	Rump, E. T. et al., "Preparation of Conjugates of Oligodeoxynucleotides and Lipid Structures and Their interaction with Low-Density Lipoprotein," Bioconjugate Chem. (1998) 9(3):341-349.				
851	Ryan, et al., "Synthesis of 2-Thio-D-ribose and 2'-Thioadenosine Derivatives", J. Org. Chem., 1971, 36(18), 2646-2657				
852	Saison-Behmoaras, T., et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", EMBO, 1991, 10, 1111-1118				
853	Saito, H. And Richardson, C., "Processing of mRNA by Ribonuclease III Regulates Expression of Gene 1.2 of Bacteriophage T7", 1981, Cell, 27, 533-542				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	48	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS				
	854	Sambrook, et al., "Molecular Cloning. A Laboratory Manual", Cold Spring Harbor Laboratory Press, 1989, Vol. 2, pgs. 11.31-11.32		
	855	San et al., "Safety and short term toxicity of a novel cationic lipid formulation for human gene therapy", Human Gene Therapy, 1993, 4, 781-788		
	856	Sands, et al., 'Biodistribution and Metabolism of Internally 3H-Labeled Oligonucleotides. II. 3',5'-Blocked Oligonucleotides", Mol. Pharmacol., 1995, 47, 636-646		
	857	Sanghvi, Y.S. et al., "Heterocyclic Base Modifications in Nucleic acids and their Applications in Antisense Oligonucleotides", Antisense Research and Applications, CRC Press, Boca Raton, Chapter 15, 1993, 273-288		
	858	Scaringe, S.A. et al., "Novel RNA Synthesis Method Using 5'-O-Silyl-2'-O-orthoester Protecting Groups," J. Am. Chem. Soc., 1998, 120(45), 11820-11821		
	859	Scaringe, S.A., "RNA Oligonucleotide Synthesis via 5'-Silyl-2'-Orthoester Chemistry," Methods, 2001, 23, 206-217		
	860	Scaringe, S.A., Thesis entitled, "Design and Development of New Protecting Groups for RNA Synthesis," University of Colorado (1996)		
	861	Scherer et al., "Approaches for the sequence-specific knockdown of mRNA," Nat. Biotechnol., 2003, 21(12), 1457-1465		
	862	Schöning, K.-U., et al., "Chemical etiology of nucleic acid structure: the α-threofuranosyl-(3'→2') oligonucleotide system," Science, 2000, 290, 1347-1351		
	863	Schott, "Template-Chromatographie An Stationar Gebundenen Oligonukleotiden", J. Chromatogr., 1975, 115, 461-476		
	864	Schwartz, et al., "A microtransfection method using the luciferase-encoding reporter gene for the assay of human immunodeficiency virus LTR promoter activity", Gene, 1990, 88, 197-205		
	865	Schwartz, M.E. et al., "Rapid Synthesis of Oligoribonucleotides Using 2'-O-(o-Nitrobenzylloxymethyl)-Protected Monomers," Bioorg. Med. Chem. Lett., 1992, 2(9), 1019-1024		
	866	Schwarz, D.S. et al., "Asymmetry in the Assembly of the RNAi Enzyme Complex," Cell, 2003, 115(2), 199-208		
	867	Searle, M. S. et al., "On the Stability of Nucleic Acid Structures in Solution: Enthalpy-Entropy Compensations, Internal Rotations and Reversibility," Nucl. Acids Res., 1993, 21(9), 2051-2056		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
				Filing Date	November 4, 2003
				First Named Inventor	Charles Allerson
				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	49	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	868	Seela, et al., "Palindromic Octa- and Dodecanucleotides Containing 2'-Deoxytubercidin: Synthesis, Hairpin Formation, and Recognition by the Endodeoxyribonuclease", Biochemistry, 1987, 26, 2232-2238			
	869	Seliger, H., et al., "Synthetic Oligonucleotides for Biomedical Applications," Nucleic Acids Symp Ser., 1991, 24:193-196			
	870	Seliger, H., "Handelsubliche Polymere als Trager in der Oligonucleotidsynthese, 1", Die Makromolekulart Chemie, 1975, 176, 1611-1627			
	871	Seliger, H., and Aumann, G., "Trager-Oigonucleotidsynthese an unvernetzten Copolymeren aus Vinylalkohol und N-Vinylpyrrolidon", Die Makromolekulare Chemie, 1975, 176, 609-627			
	872	Seliger, H. And Aumann, G., "Oligonucleotide Synthesis on a Polymer Support Soluble in Water and Pyridine", Tetrahedron Letters, 1973, No. 31, 2911-2914			
	873	Shea et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", Nucl. Acids Res., 1990, 18(13), 3777-3783			
	874	Sheehan, D. et al., "Biochemical properties of phosphonoacetate and thiophosphonoacetate oligodeoxyribonucleotides," Nucleic Acids Res., 2003, 31(14), 4109-4118			
	875	Shi, Y., "Mammalian RNAi for the masses," Trends in Genetics (2003) 19(1): 9-12			
	876	Shibahara, S. et al., "Inhibition of human immunodeficiency virus (HIV-1) replication by synthetic oligo-RNA derivatives," Nucl. Acids Res., 1989, 17(1), 239-252			
	877	Shuman, S. et al., "Site-specific Interaction of Vaccinia Virus Topoisomerase I with Base and Sugar Moieties in Duplex DNA," J. Biol Chem, 1993, 268, 18943-18950			
	878	Siddell, S.G., "RNA Hybridization to DNA Coupled with Cyanogen-Bromide-Activated Sephadex", Eur. J. Biochem., 1978, 92, 621-629			
	879	Sigman, "Nuclease Activity of 1,10-Phenanthroline-Copper Ion", Acc. Chem. Res., 1986, 19, 180-186			
	880	Sijen, T. et al., "On the role of RNA amplification in dsRNA-triggered gene silencing," Cell, Nov. 16, 2001, 107, 465-476			
	881	Singer et al., "Alkylation of Ribose in RNA Reacted with Ethylnitrosourea at Neutrality," Biochem., 1976, 15(23), 5052			
	882	Singh, S.K. et al., "LNA (locked nucleic acids): synthesis and high-affinity nucleic acid recognition," Chem. Commun., 1998, 4, 455-456			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	50	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS

883	Singh, S.K., et al., "Synthesis of 2'-amino-LNA: a novel conformationally restricted high-affinity oligonucleotide analogue with a handle," <i>J. Org. Chem.</i> , 1998, 63, 10035-10039
884	Skorski, T. et al., "Antileukemia effect of c-myc N3'P5' phosphoramidate antisense oligonucleotides in vivo," <i>Proc. Natl. Acad. Sci. USA</i> , 1997, 94, 3966-3971
885	Smith et al., "Antiviral effect of an oligo(nucleoside methylphosphonate) complementary to the splice junction of herpes simplex virus type 1 immediate early pre-mRNAs 4 and 5", <i>Proc. Natl. Acad. Sci. USA</i> , 1986, 83, 2787-2791
886	Smith, et al., "The synthesis of oligonucleotides containing an aliphatic amino group at the 5' terminus: synthesis of fluorescent DNA primers for use in DNA sequence analysis", <i>Nucl. Acids Res.</i> , 1985, 13, 2399-2412
887	Smith, T.F. et al., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> , 1981, 2, 482-489
888	Song, E. et al., "RNA interference targeting Fas protects mice from fulminant hepatitis," <i>Nature Med.</i> , 2003, 9(3), 347-351
889	Song, J.-J. et al., "The Crystal Structure of Argonaute and Its Implication for RISC Slicer Activity," <i>Science</i> , 2004, 305, 1434-1437
890	Song, J.-J. et al., "The crystal structure of the Argonaute2 PAZ domain reveals an RNA binding motif in RNAi effector complexes," <i>Nature Struct. Biol.</i> , 2003, 10(12), 1026-1032
891	Soutschek, J. et al., "Therapeutic silencing of an endogenous gene by systemic administration of modified siRNAs," <i>Nature</i> , 2004, 432(7014), 173-178
892	Sproat, et al., "Highly Efficient Chemical Synthesis of 2'-O-methyloligoribunucleotides and Tetrabiotinylated Derivatives; Novel Probes That are Resistant to Degradation by RNA or DNA Specific Nucleases", <i>Nucleic Acids Research</i> , 1989, 17, 3373-3386
893	Sproat, et al., "New synthetic routes to protected purine 2'-O-methylriboside-3'-O-phosphoramidites using a novel alkylation procedure", <i>Nucleic Acids Research</i> , 1990, 18, 41-49
894	Steffens, R., et al., "168. Nucleic-acid analogs with constraint conformational flexibility in the sugar-phosphate backbone 'tricycle-DNA'", <i>Helv. Chim. Acta</i> , 1997, 80, 2426-2439
895	Steffens, R., et al., "Synthesis and thermodynamic and biophysical properties of tricycle-DNA," <i>Am. Chem. Soc.</i> , 1999, 121(14), 3249-3255
896	Stein, C.A. et al., 'Antisense Oligonucleotides as Therapeutic Agents - Is the Bullet Really Magical?", <i>Science</i> , 1993, 261, 1004-1012

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
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				Art Unit	1635
				Examiner Name	Jane J. Zara
				Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	897	Stein, et al., "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review", Cancer Research, 1988, 48, 2659-2668			
	898	Stein, et al., "Physicochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research, 1988, 16, 3209-3221			
	899	Stolt, P. And Zillig, W., "Antisense RNA mediates transcriptional processing in an archaebacterium, indicating a novel kind of RNase activity", Mol. Microbiol., 1993, 7, 875-882			
	900	Strickland, et al., "Antisense RNA Directed Against the 3' Noncoding Region Prevents Dormant mRNA Activation in Mouse Oocytes", Science, 1988, 241, 680-684			
	901	Struck, "Vaccine R&D Success Rates and Development Times," Nature Biotechnology, May 1996, 14, 591-593			
	902	Stufkens, et al., "Dynamic Jahn-Teller Effect in the Excited States of SeCl62-, SeBr62-, TeCl62- and TeBr62-", Recueil des Travaux Chimiques des Pays-Bas 1970, 89, 1185-1201			
	903	Stull, et al., "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects", Pharm. Res., 1995, Pharm. Rev., 12, 465-482			
	904	Suciuc et al., "Synthesis of 9-(2,5-dideoxy-β-D-glycero-pent-4-enofuranosyl)adenine", Carbohydrate Research, 1975, 44, 112-115			
	905	Sutcliffe, J.G. et al., "TOGA: An automated parsing technology for analyzing expression of nearly all genes," PNAS, 2000, 97(5), 1976-1981			
	906	Svinarchuk, F.P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups," Biochimie, 1993, 75, 49-54			
	907	Syvanen, et al., "Quantification of polymerase chain reaction products by affinity-based hybrid collection", Nucl. Acids Res., 1988, 16, 11327-11338			
	908	Szyf, et al., "Growth Regulation of Mouse DNA Methyltransferase Gene Expression", J. Biol. Chem., 1991, 266, 10027-10030			
	909	Tabara, H. et al., "RNAi in C. elegans: Soaking in the Genome Sequence," Science, 1998, 282(5388), 430-431			
	910	Table listing related applications and office actions and rejections from those related applications			
	911	Tamanini, F. et al., "The fragile X-related proteins FXRIP and FXRZP contain a functional nucleolar-targeting signal equivalent to the HIV-1 regulatory proteins," Hum. Mol. Genet. (2000) 9(10):1487-1493			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Art Unit	1635
				Examiner Name	Jane J. Zara
Sheet	52	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	912	Tang, X.-Q. et al., "2'-C-Branched Ribonucleosides: Synthesis of the Phosphoramidite Derivatives of 2'-C-Beta-Methylcytidine and Their Incorporation into Oligonucleotides," <i>J. Org. Chem.</i> , 1999, 64(3), 747-754			
	913	Tazawa et al., "A Novel Procedure for the Synthesis of 2'-O-Alkyl Nucleotides" <i>Biochem.</i> , 1972, 11(26), 4931			
	914	Thompson, "Applications of Antisense and siRNAs During Preclinical Drug Development," <i>DDT</i> (2002) 7(17): 912-917			
	915	Tidd, D.M. et al., "Evaluation of N-ras oncogene anti-sense, sense and nonsense sequence methylphosphonate oligonucleotide analogues," <i>Anti-Cancer Drug Design</i> , 1988, 3(2), 117-127			
	916	Tijsterman, M. et al., "RNA Helicase MUT-14-Dependent Gene Silencing Triggered in <i>C. elegans</i> by Short Antisense RNAs," <i>Science</i> , 295(5555), 694-697			
	917	Timmons, L. et al., "Ingestion of bacterially expressed dsRNAs can produce specific and potent genetic interference in <i>Caenorhabditis elegans</i> ," <i>Gene</i> , 2001, 263(1-2), 103-112			
	918	Timmons, L. et al., "Specific interference by ingested dsRNA," <i>Nature</i> , 1998, 395(6705), 854			
	919	To, K.-Y. "Identification of differential gene expression by high throughput analysis," <i>Comb. Chem. & High Throughput Screen</i> , 2000, 3, 235-241			
	920	Tosquellas, G. et al., "The pro-oligonucleotide approach: solid phase synthesis and preliminary evaluation of model pro-dodecathymidylates," <i>Nucleic Acids Research</i> , 1998, 26(9), 2069-2074			
	921	Tracewell et al., "In Vivo Modulation of Rat Cytochrome P450 1A1 by Double-Stranded Phosphorothioate Oligodeoxynucleotides, <i>Toxicology and Applied Pharmacology</i> , 1995, 135, 179-184			
	922	Tseng et al., "Antisense Oligonucleotide Technology in the Development of Cancer Therapeutics", <i>Cancer Gene Therapy</i> , 1994, 1, 65-71			
	923	Tuschl et al., "Targeted mRNA degradation by double-stranded RNA in vitro," <i>Genes Dev</i> , 1999, 13(24), 3191-3197			
	924	Tuschl, T. et al., "Small interfering RNAs: a revolutionary tool for the analysis of gene function and gene therapy," <i>Molecular Interventions</i> , 2002, 2(3), 158-167			
	925	U.S. Patent Application Serial No. 09/315,298 filed May 20, 1999, by Teng et al.			
	926	U.S. Patent Application Serial No. 60/423,760 filed November 5, 2002, by Baker et al.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	53	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	927	Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", Chem. Rev., 1990, 90, 543			
	928	Van der Krol, et al., "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences", BioTechniques, 1988, 6, 958-976			
	929	Van Ness et al., "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays", Nucleic Acids Research, 1991, 19, 3345-3350			
	930	Veronese et al., "Bioconjugation in pharmaceutical chemistry," II Farmaco, 1999, 54, 497-516			
	931	Vickers, T.A. et al., "Efficient Reduction of Target RNAs by Small Interfering RNA and Rnase H-dependent Antisense Agents," J. Biol. Chem., 2003, 278(9), 7108-7118			
	932	Volk et al., "An antisense transcript from the Xenopus laevis bFGF gene coding for an evolutionarily conserved 24 kd protein", EMBO J., 1989, 8, 2983-2988			
	933	Wada, A. et al., "Nuclear export of actin: a novel mechanism regulating the subcellular localization of a major cytoskeletal protein," EMBO J. (1998) 17:1635-1641			
	934	Wahlestedt, C., et al., "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," Proc. Natl. Acad. Sci. U.S.A., 2000, 97(10), 5633-5638			
	935	Walder, et al., "Antisense DNA and RNA: Progress and Prospects", Genes & Development, 1988, 2, 502-504			
	936	Walder, et al., "Role of RNase H in Hybrid-Arrested Translation by Antisense Oligonucleotides", Proc. Natl. Acad. Sci. USA 1988, 85, 5011-5015			
	937	Wang, J., et al., "Synthesis and binding property of an oligonucleotide containing tetrafluorophenoxazine," Tetrahedron Lett., 1998, 39, 8385-8388			
	938	Wang, X. et al., "Modular Recognition of RNA by a Human Pumilio-Homology Domain," Cell (2002) 110:501-512.			
	939	Wei, Z. et al., "Hybridization properties of oligodeoxynucleotide pairs bridged by polyarginine peptides," Nucleic Acids Res. (1996) 24(4):655-661.			
	940	Wein, G. et al., "The 3'-UTR of the mRNA coding for the major protein kinase C substrate MARCKS contains a novel CU-rich element interacting with mRNA stabilizing factors HuD and HuR," Eur. J. Biochem. (2003) 270:350-365.			
	941	Wengel, J., et al., "LNA (locked nucleic acid)," Nucleosides, Nucleotides, 1999, 18(6 & 7), 1365-1370			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	54	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	942	Westermann et al., "Inhibition of expression of SV40 virus large T-antigen by antisense oligodeoxyribonucleotides", Biomed. B. Acta., 1989, 48, 85-93			
	943	Wetlaufer et al., "Surfactant-Mediated Protein Hydrophobic-Interaction Chromatography", J. Chromatography, 1986, 359, 55-60			
	944	Wianny et al., "Specific interference with gene function by double-stranded RNA in early mouse development," Nature Cell Biology (2000) 2: 70-75			
	945	Wilds et al., "2'-Deoxy-2'-fluoro-B-D-arabinonucleosides and oligonucleotides (2'F-ANA): synthesis and phisicochemical studies," Nucleic Acids Res., 2000, 28, 3625-3635			
	946	Wilds, C.J., et al., "Duplex recognition by oligonucleotides containing 2'-deoxy-2'-fluoro-D-arabinose and 2'-deoxy-2'-fluoro-D-ribose. Intermolecular 2'-OH-phosphate contacts versus sugar puckering in the stabilization of triple-helical complexes," Bioconjugate Chem., 1999, 10, 299-305			
	947	Williams, D.M., et al., 'Properties of 2'-Fluorothymidine-Containing Oligonucleotides: Interaction with Restriction Endonuclease EcoRV,' Biochemistry, 1991, 30, 4001-4009			
	948	Wincoff et al., "Synthesis, deprotection, analysis and purification of RNA and ribozymes," Nucl. Acids Res., 1995, 23(14), 2677-2684			
	949	Wolfe, S., et al., "The guache effect. Some stereochemical consequences of adjacent electron pairs and polar bonds," Acc. Of Chem. Res., 1972, 5, 102-111			
	950	Wouters, J. et al., "5-Substituted Pyrimidine 1,5-Anhydronhexitols: Conformational Analysis and Interaction with Viral Thymidine Kinase," Bioorg. Med. Chem. Lett., 1999, 9, 1563-1566			
	951	Wright, P. et al., "Large Scale Synthesis of Oligonucleotides via Phosphoramidite Nucleosides and a High-loaded Polystyrene Support," Tetrahedron Lett., 1993, 34(21), 3373-3376			
	952	Wu et al., "High Resolution Separation and Analysis of Biological Macromolecules", Methods in Enzymology, 1996, 270, 27-47			
	953	Wu et al., "Purification and Properties of Drosophila Heat Shock Activator Protein", Science, 1987, 238, 1247-1253			
	954	Wu, H. et al., "Identification and partial purification of human double strand RNase activity. A novel terminating mechanism for oligoribonucleotide antisense drugs," J. Biol. Chem, 1998, 273(5), 2532-2542			
	955	Wu, H. et al., "Properties of Cloned and Expressed Human RNase H1," Journal of Biological Chemistry 1999, vol. 274, pages 28270-28278			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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				Examiner Name	Jane J. Zara
Sheet	55	of	56	Attorney Docket Number	ISIS-5325

NON PATENT LITERATURE DOCUMENTS					
	956	Wu, X., et al., "Base-pairing systems related to TNA: α-threofuranosyl oligonucleotides containing phosphoramidate linkages," <i>Organic Lett.</i> , 2002, 4(8), 1279-1282			
	957	Yang, Y. et al., "HIV-1 TAT-mediated protein transduction and subcellular localization using novel expression vectors," <i>FEBS Letters</i> (2002) 532, 36-44.			
	958	Yashima et al., "High-performance affinity chromatography of oligonucleotides on nucleic acid analogue immobilized silica gel columns", <i>J. Chromatog.</i> , 1992, 603, 111-119			
	959	Yasuda et al., "Purification and characterization of a ribonuclease from human spleen", <i>Eur. J. Biochem.</i> , 1990, 191, 523-529			
	960	Yeung, et al., "Photoreactives and Thermal Properties of Psoralen Cross-Links", <i>Biochemistry</i> 1988, 27, 3204-3210			
	961	Yu, D. et al., "Hybrid oligonucleotides: synthesis, biophysical properties, stability studies, and biological activity," <i>Bioorganic and Medicinal Chemistry</i> , 1996, 4(10), 1685-1692			
	962	Yu, Y.T. et al., "A new method for detecting sites of 2'-O-methylation in RNA molecules," <i>RNA</i> , 1997, 3(3), 324-331			
	963	Zamecnik, P.C. et al., "Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide," <i>Proc. Natl. Acad. Sci. USA</i> , 1978, 75(1), 280-284			
	964	Zamore, P.D. et al., "Ancient Pathways Programmed by Small RNAs," <i>Science</i> , 2002, 296, 1265-1269			
	965	Zamore, P.D. et al., "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals," <i>Cell</i> , 2000, 101, 25-33			
	966	Zanta, M. A. et al., "Gene delivery: A single nuclear localization signal peptide is sufficient to carry DNA to the cell nucleus," <i>Proc. Natl. Acad. Sci. USA</i> (1999) 96:91-96.			
	967	Zarytova, et al., "Affinity Chromatography of DNA Fragments and P-Modified Oligonucleotides", <i>Analyt. Biochem.</i> , 1990, 188, 214-218			
	968	Zhang et al., "Single Processing Center Models for Human Dicer and Bacterial RNase III," <i>Cell</i> , 2004, 118, 57-68			
	969	Zhang et al., "Targeted Gene Silencing by Small Interfering RNA-Based Knock-Down Technology," <i>Current Pharmaceutical Biotechnology</i> , 2004, 5, 1-7			
	970	Zhang, H. et al., "Reduction of liver Fas expression by an antisense oligonucleotide protects mice from fulminant hepatitis," <i>Nature Biotech.</i> , 2000, 18, 862-867			
	971	Zhang, J., et al., "PowerBLAST: A new network BLAST application for interactive or automated sequence analysis and annotation," <i>Genome Res.</i> , 1997, 7, 649-656			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Substitute for 1449/PTO				<i>Complete if Known</i>	
				Application Number	10/701,007
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NON PATENT LITERATURE DOCUMENTS			
	972	Zhang, Z. et al., "Uptake of N-(4'-pyridoxyl)amines and release of amines by renal cells: A model for transporter-enhanced delivery of bioactive compounds," Proc. Natl. Acad. Sci. USA (1991) 88:10407-10410.	
	973	Zhao, Q. et al., "Effect of Different Chemically Modified Oligodeoxynucleotides on Immune Stimulation," Biochemical Pharmacology, 1996, 51, 173-182	
	974	Zhu, T. et al., "Oligonucleotide-Poly-L-ornithine Conjugates: Binding to Complementary DNA and RNA." Antisense Res. Des. 119931 3:265-275.	
	975	Zmudzka, B. et al., "Poly 2'-0-methylcytidylic acid and the role of the 2'-hydroxyl in polynucleotide structure," Biochem Biophys Res Commun, 1969, 37(6), 895-901	
	976	Zon, "Oligonucleotide Analogues as Potential Chemotherapy Agents", Pharm. Res., 1988, 5(9), 539-549	
	977	Zon, "Synthesis of Backbone-Modified DNA Analogues for Biological Applications", J. Protein Chemistry, 1987, 6, 131-145	
	978	Zuckermann, et al., "Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides," Nucleic Acids Research, 1987, 15, 5305-5321	
	979	Zuckermann, R. N. et al., "Site-Selective Cleavage of RNA by a Hybrid Enzyme," J. Am. Chem. Soc. (1988) 110:1614-1615.	

Examiner Signature		Date Considered	
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